

Fig. 1

091045-0100
 106740-0907060

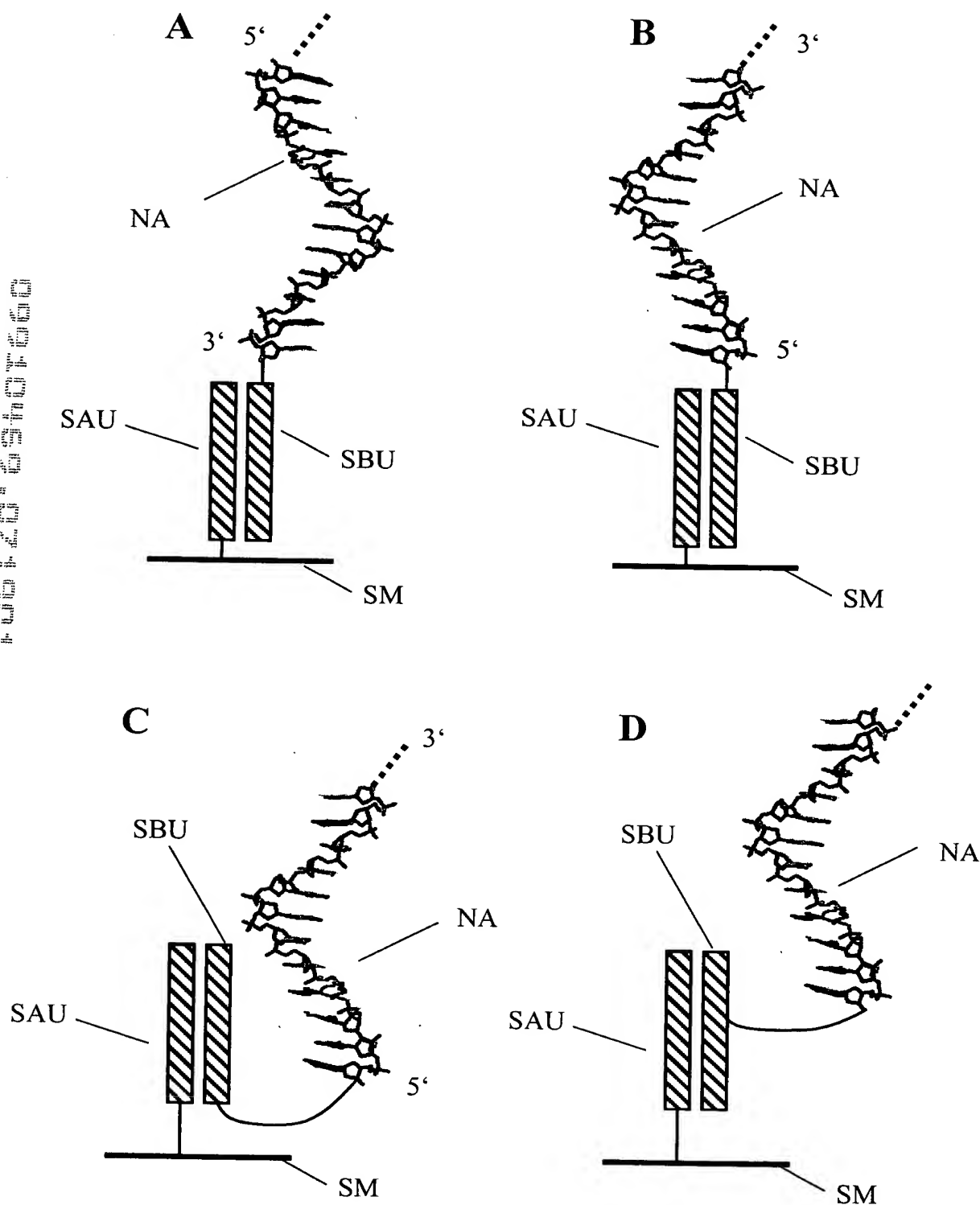


Fig. 2

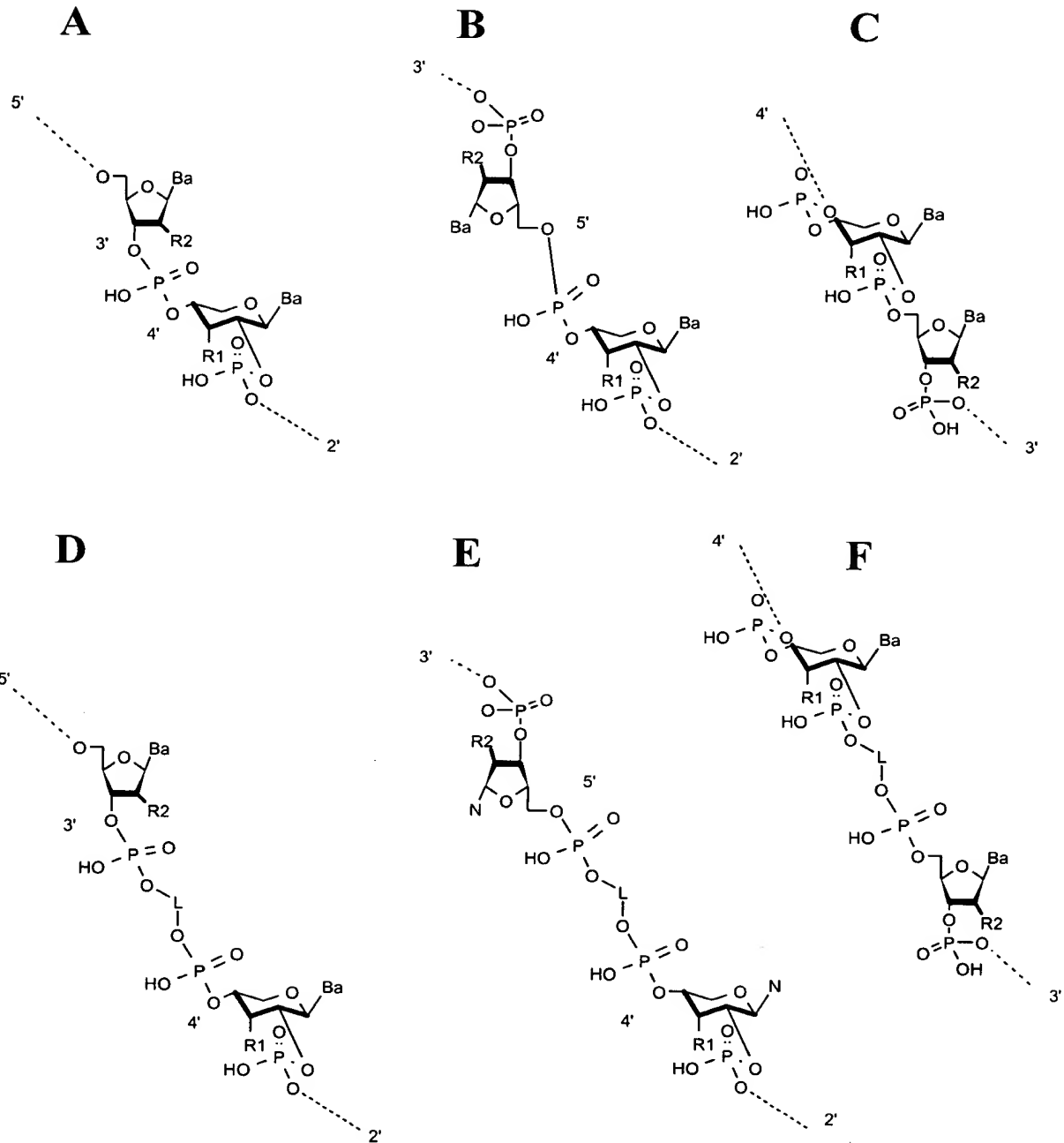


Fig. 3

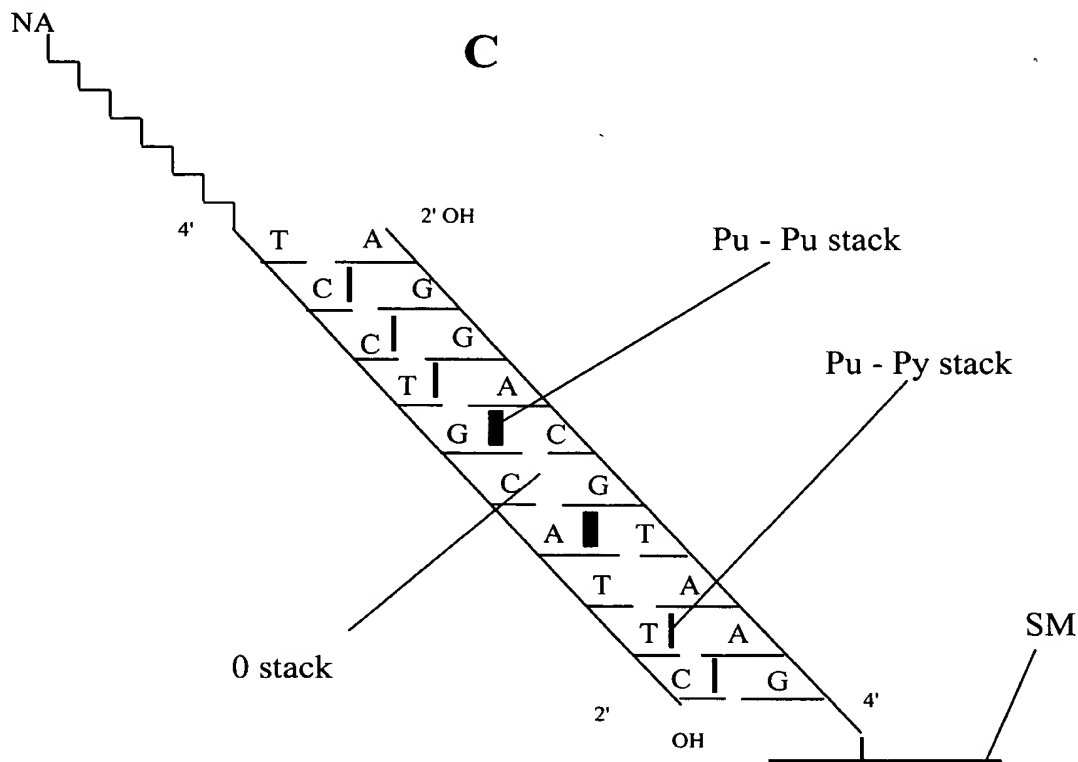
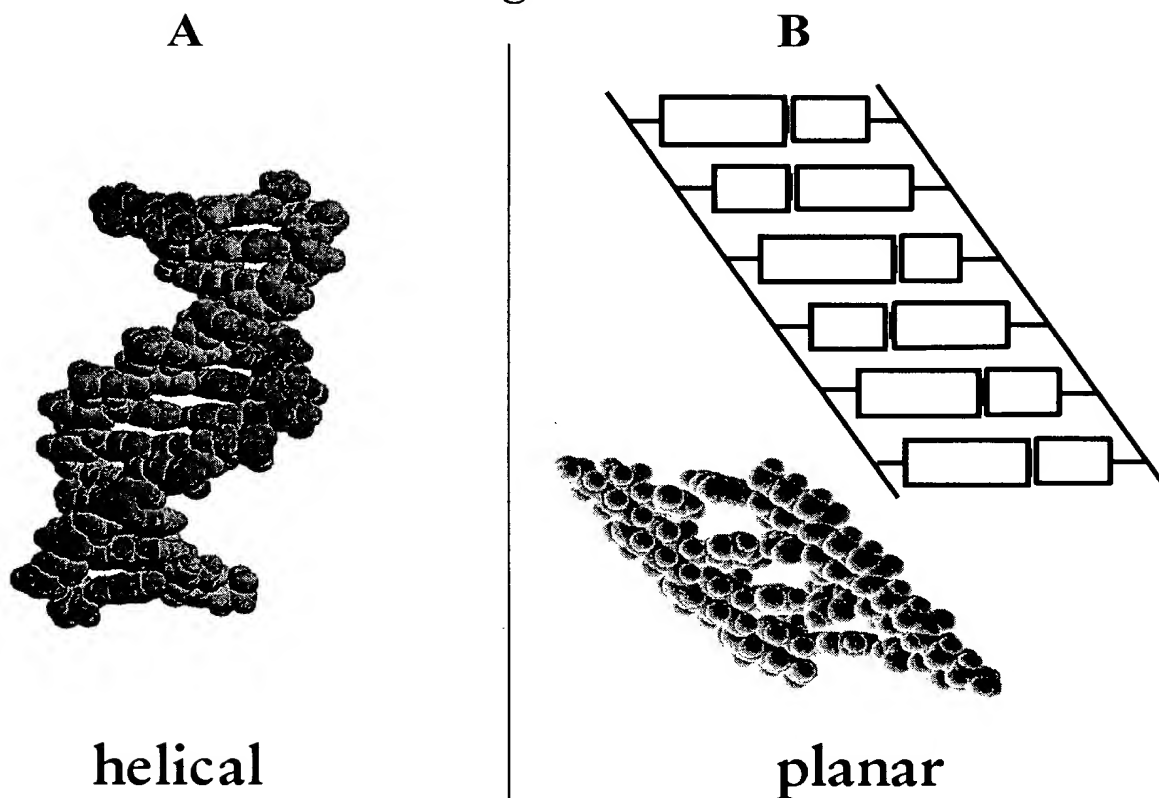


Fig. 4

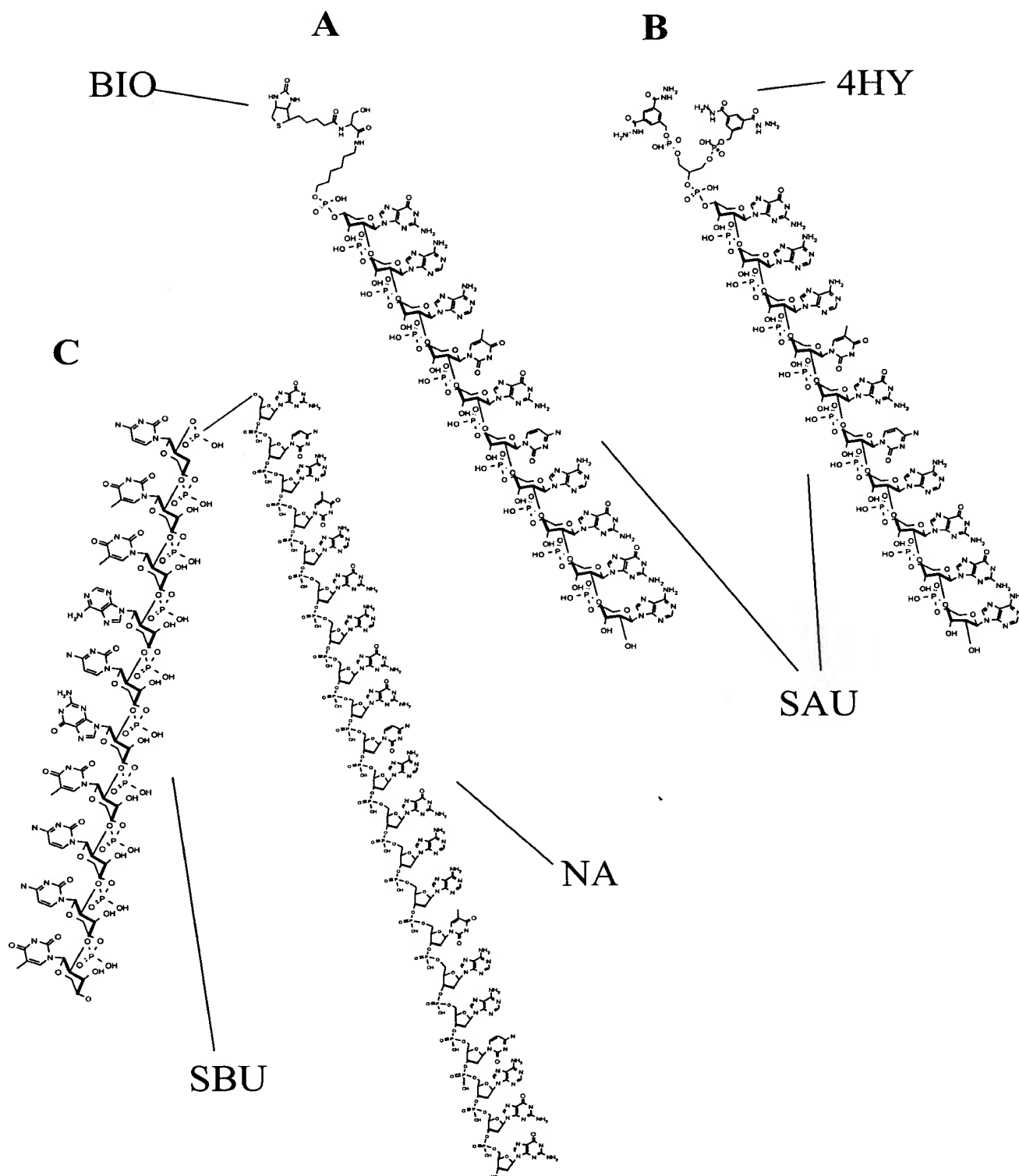


Fig. 5

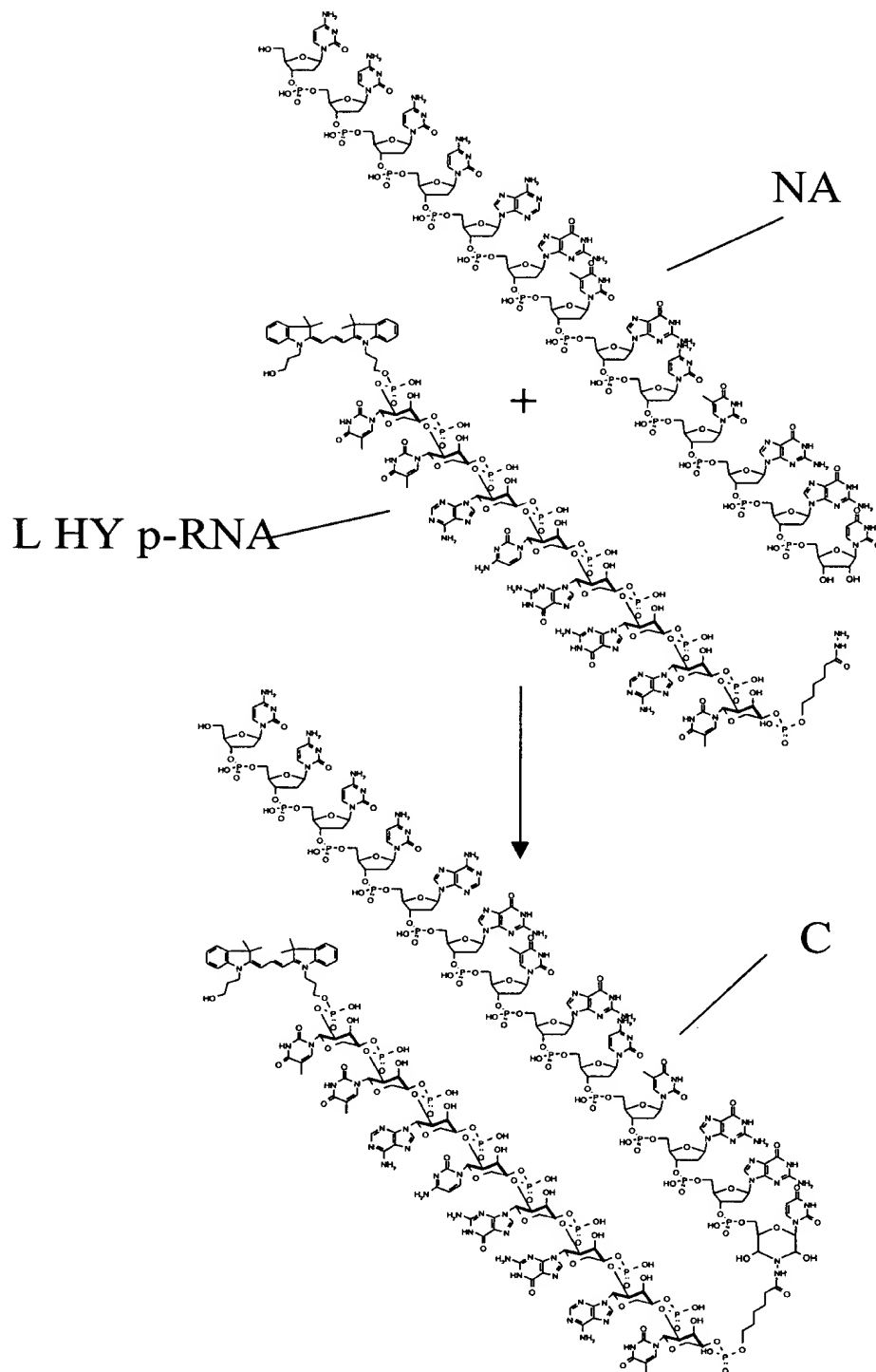


Fig. 6

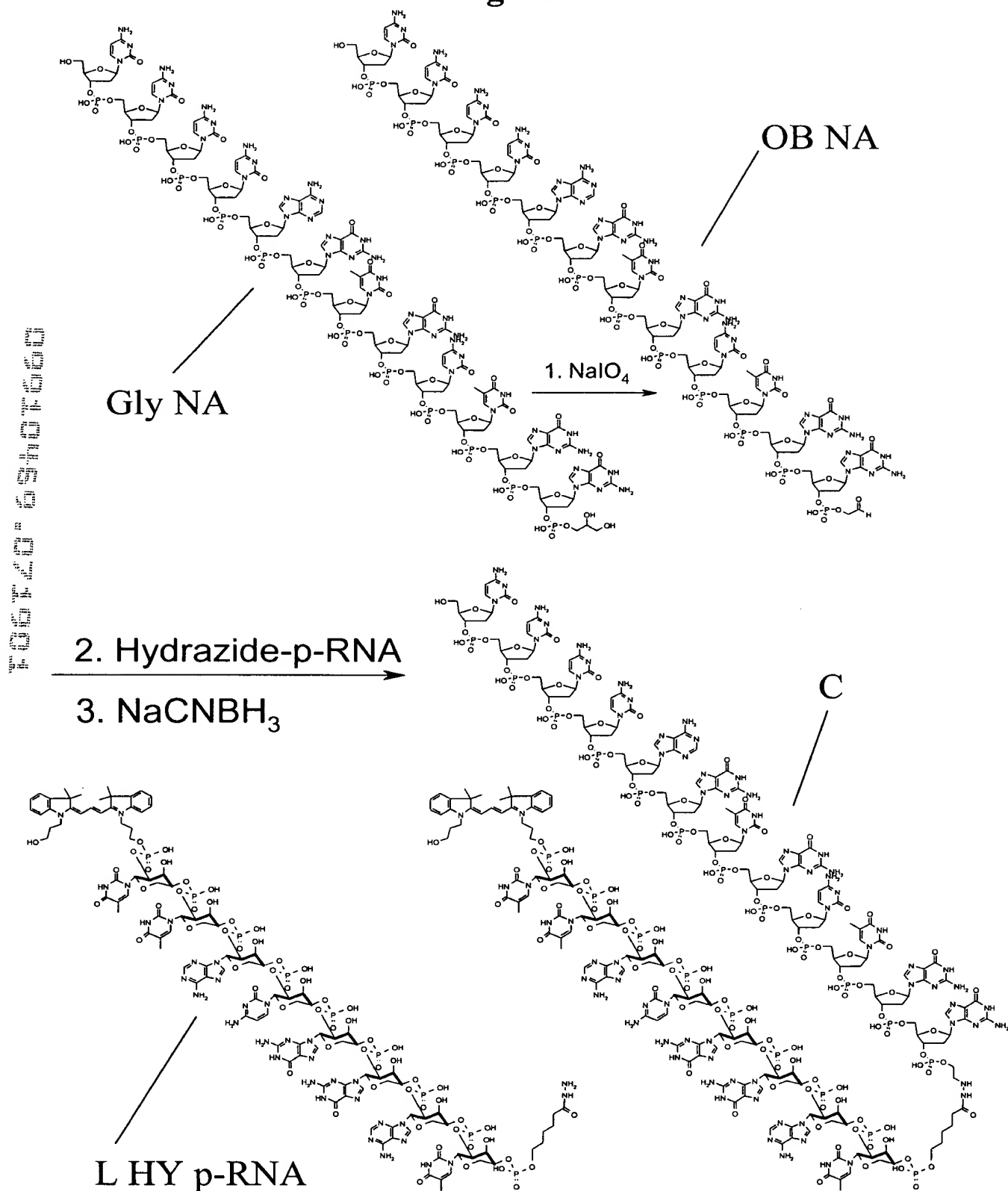


Fig. 7

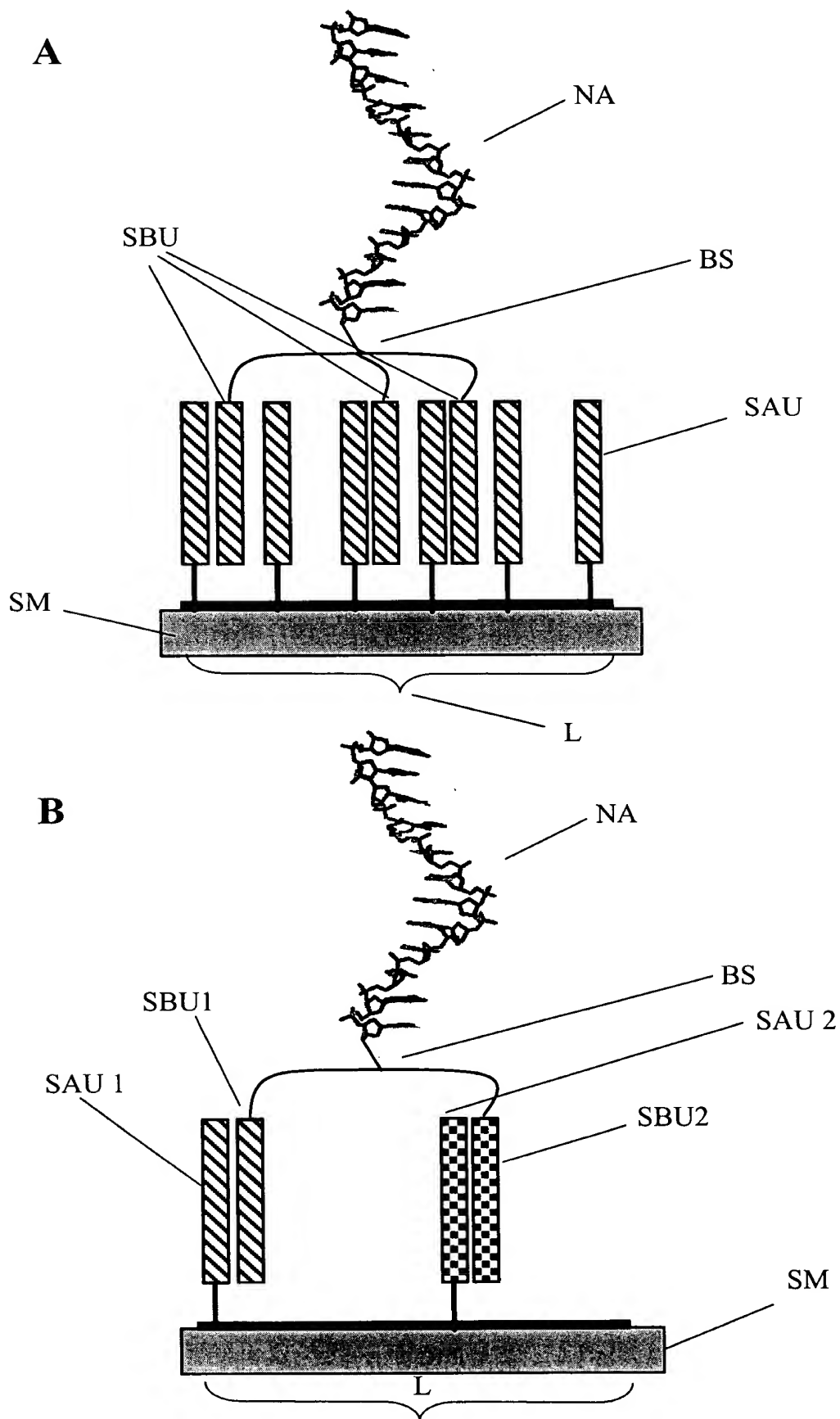
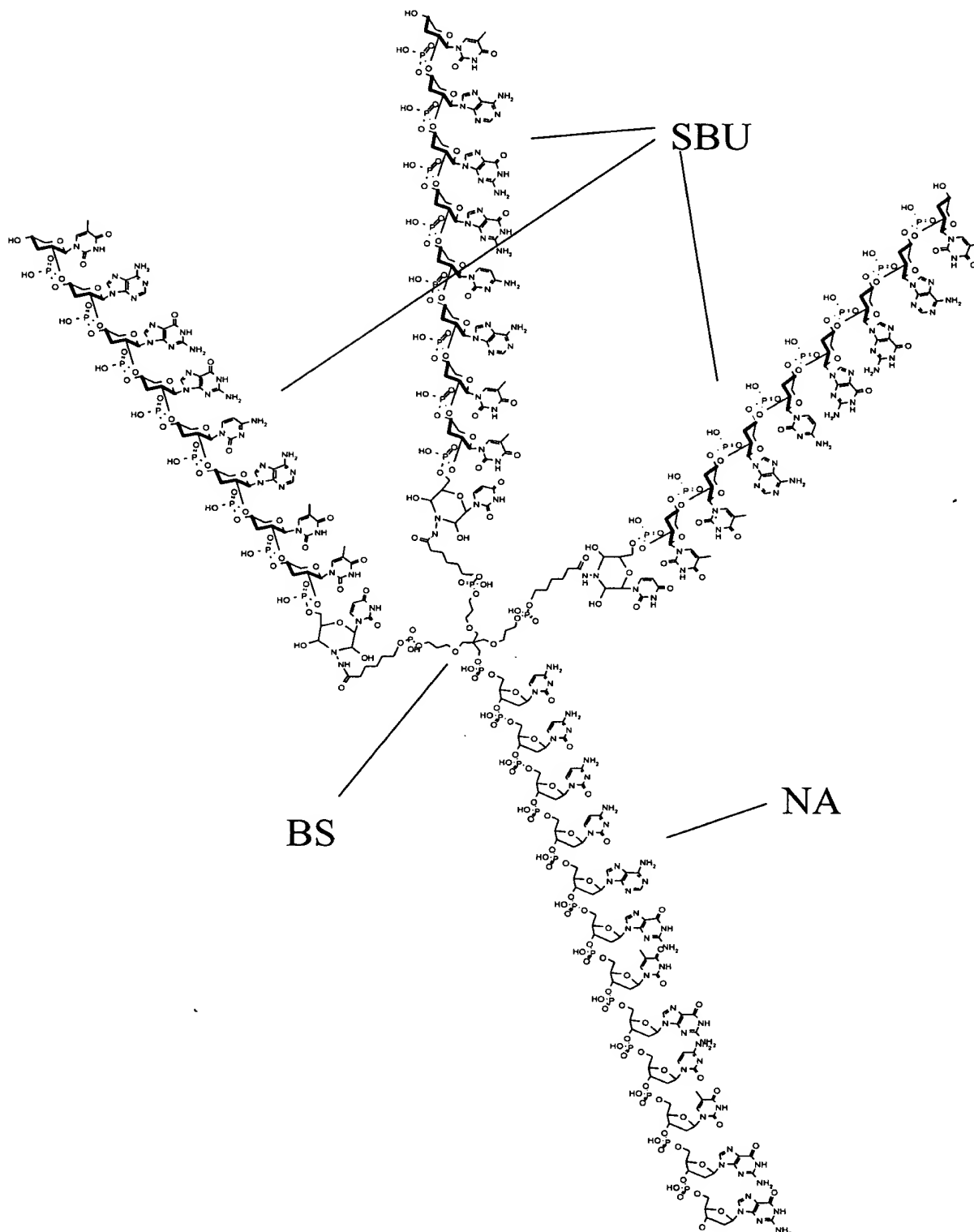


Fig. 8



Pub. No. 9,640,660

Fig. 9

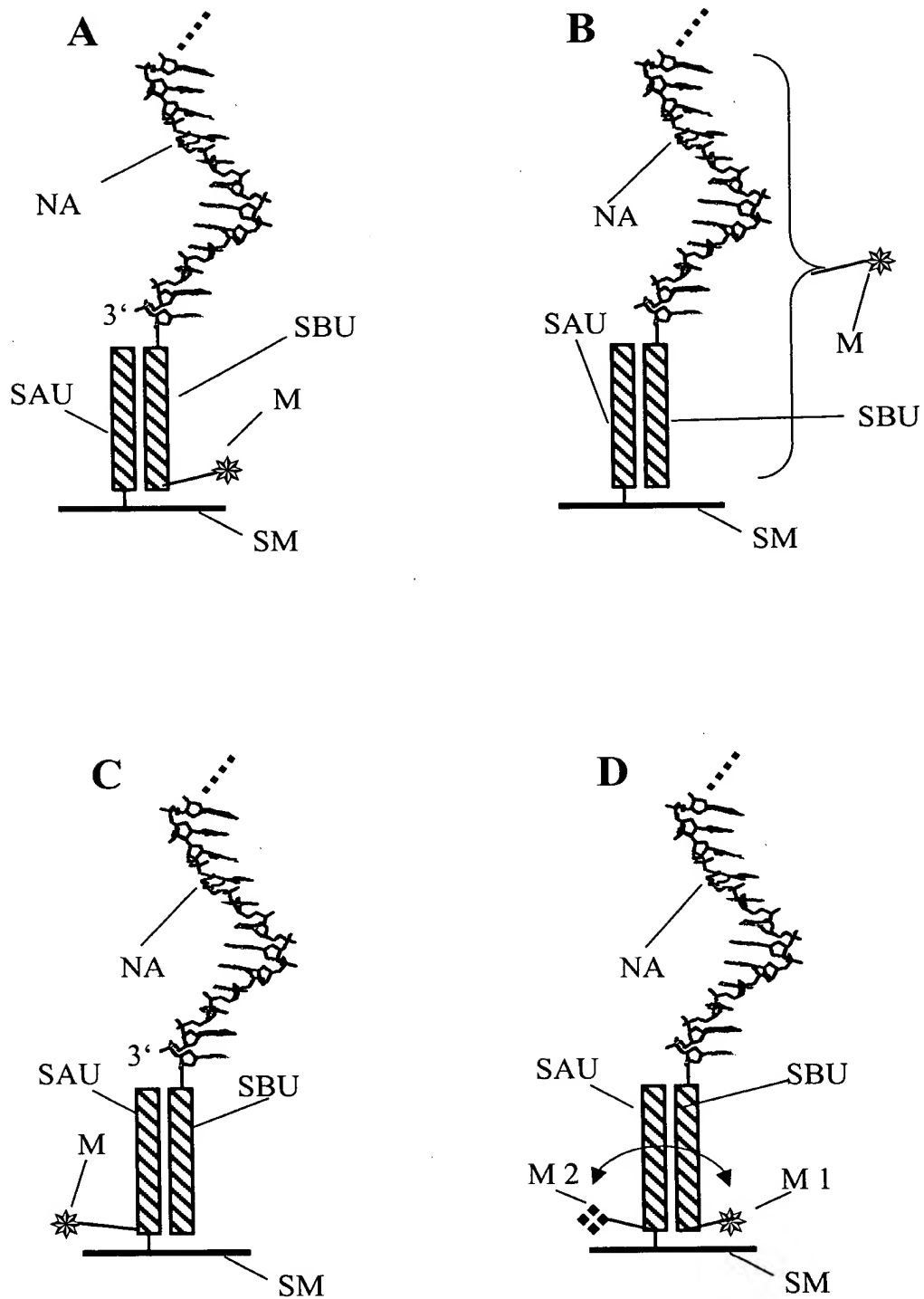


Fig. 10

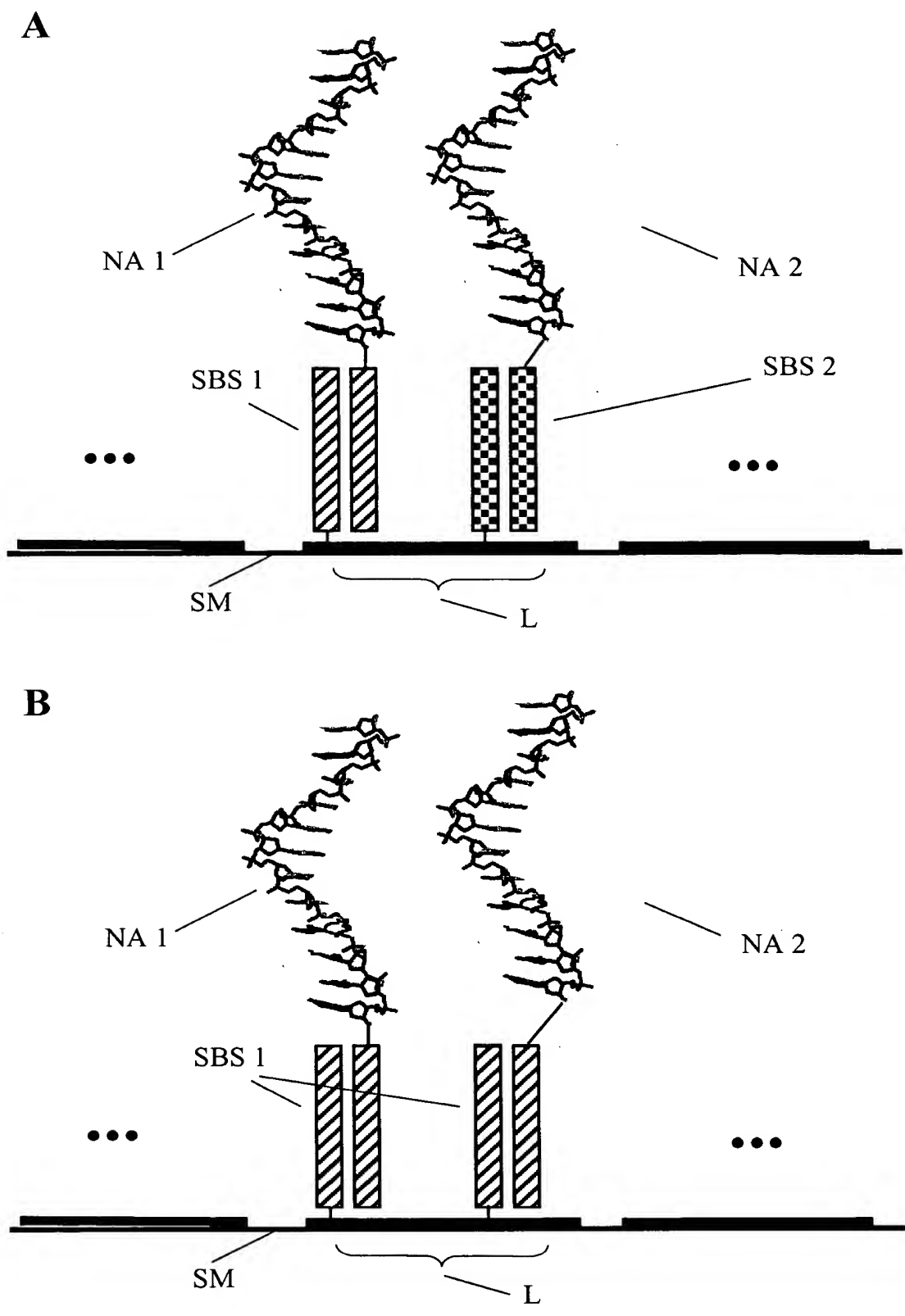
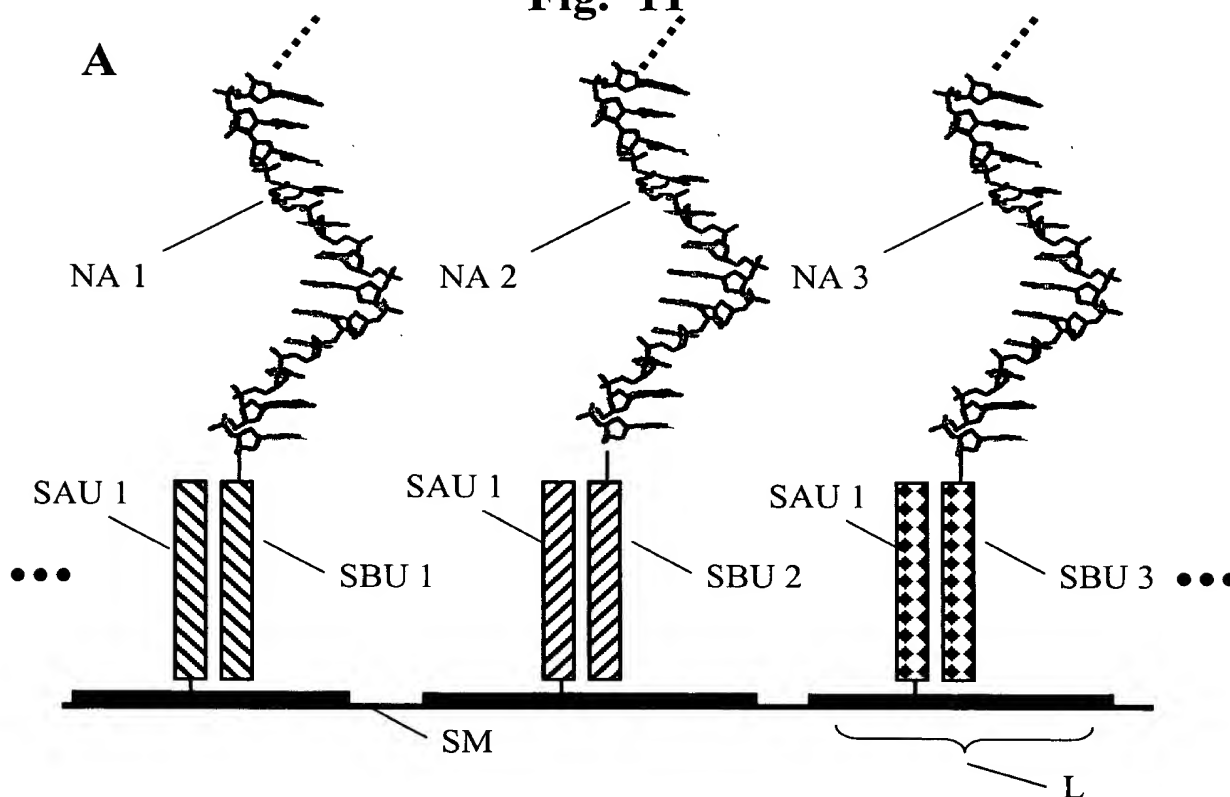


Fig. 11



B

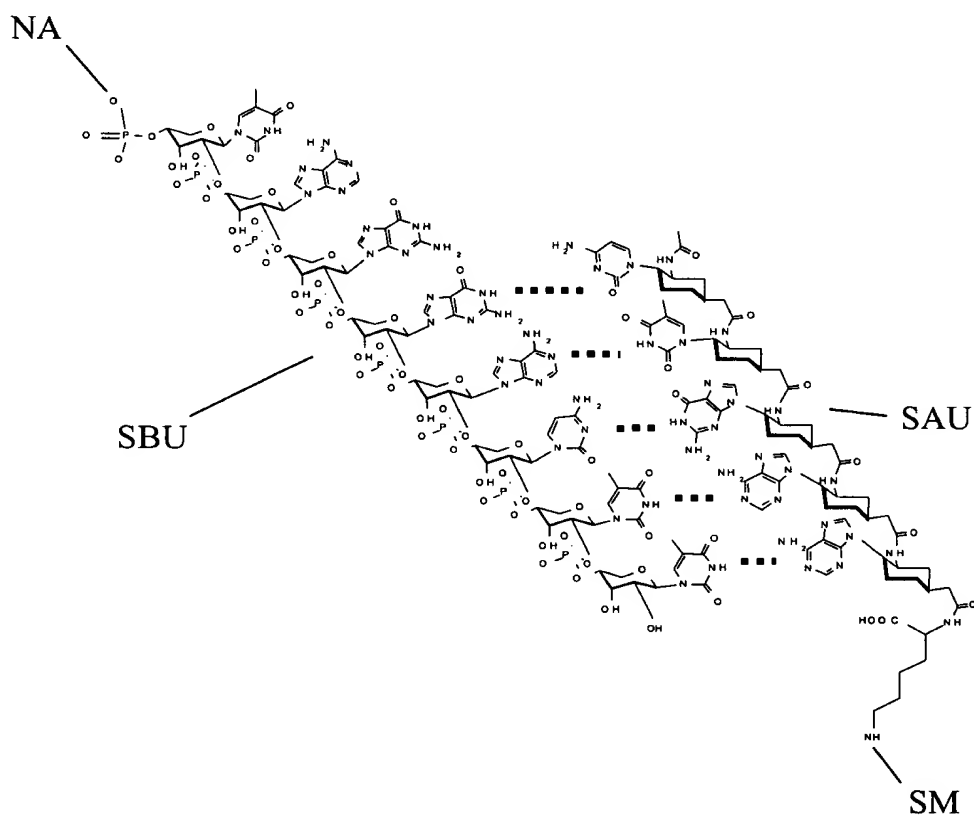
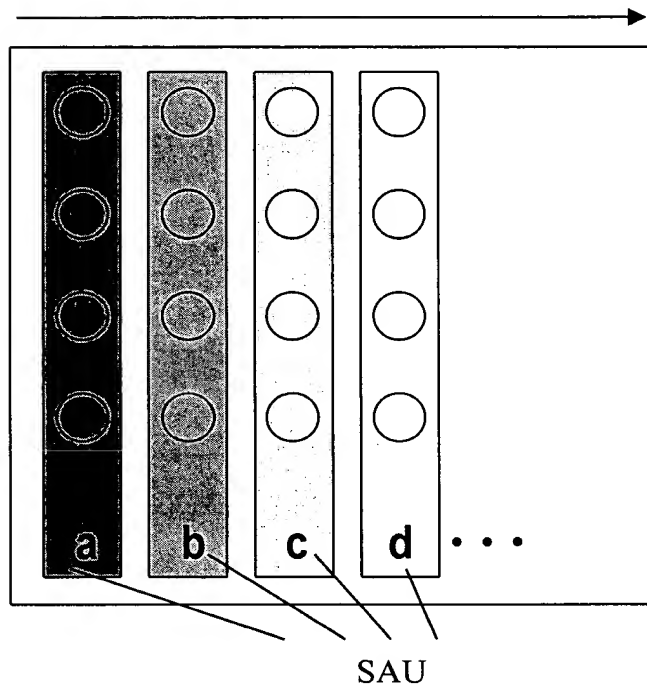


Fig. 12

A:



B:

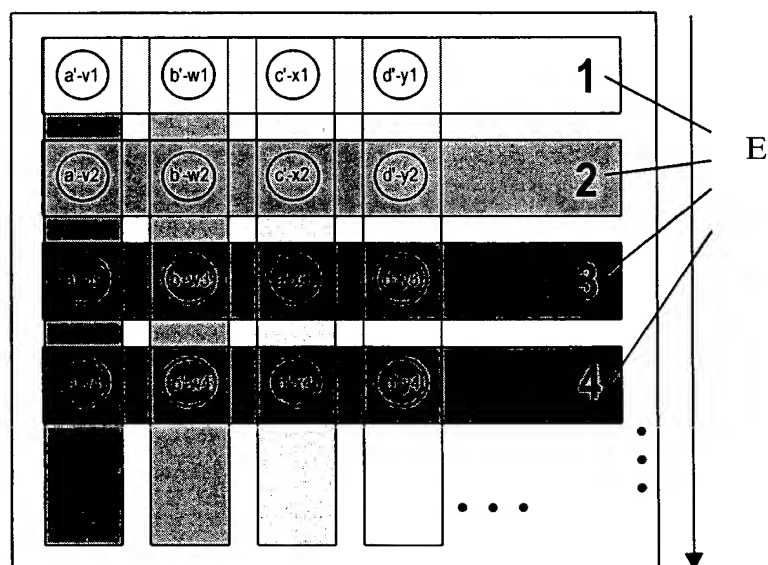
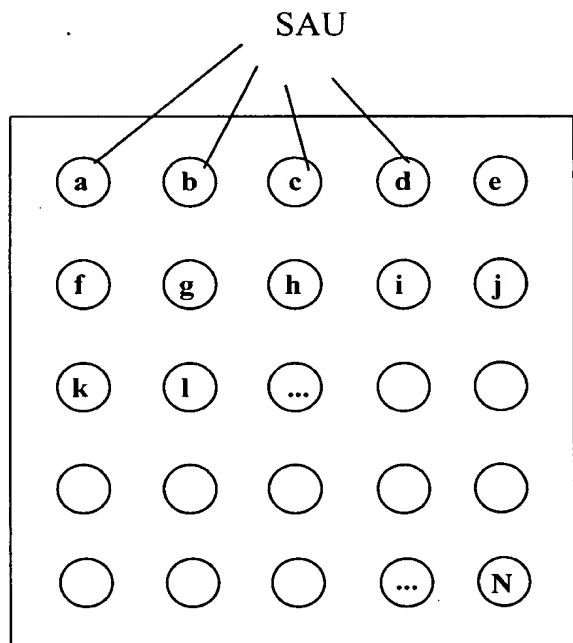


Fig. 13

A:



B:

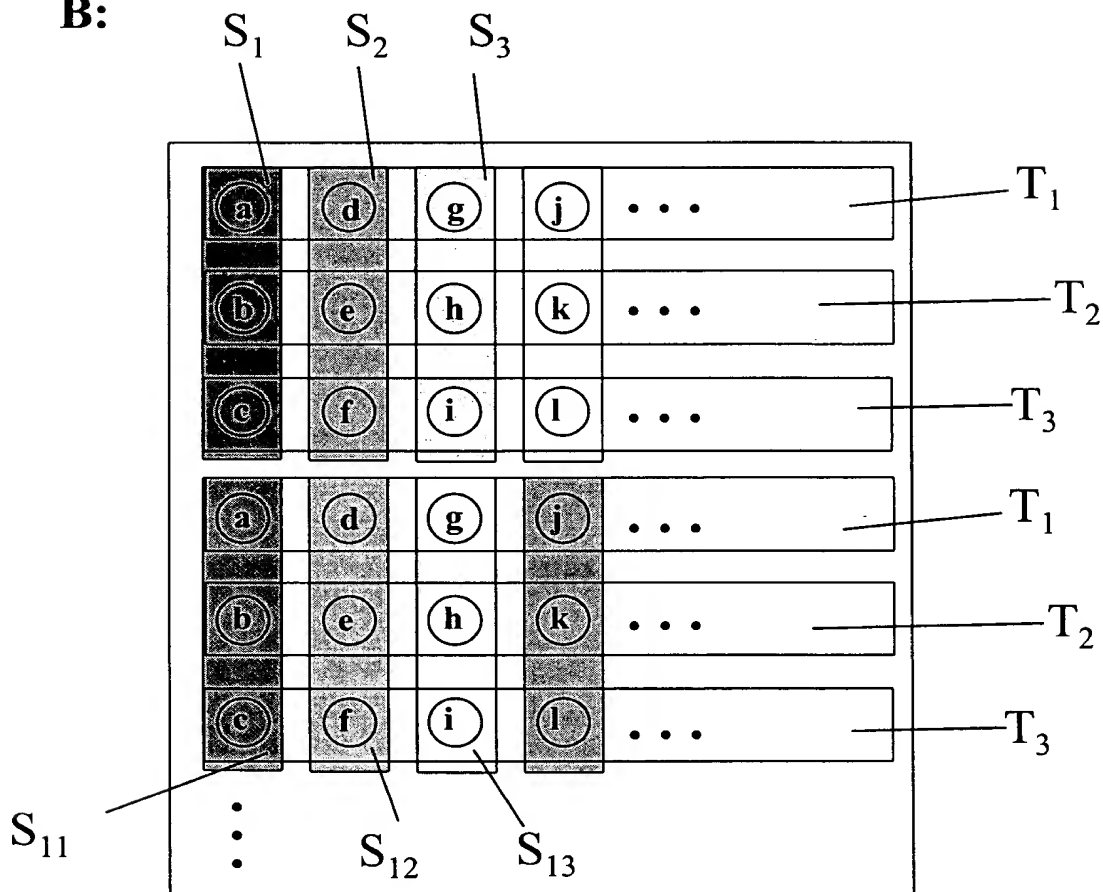
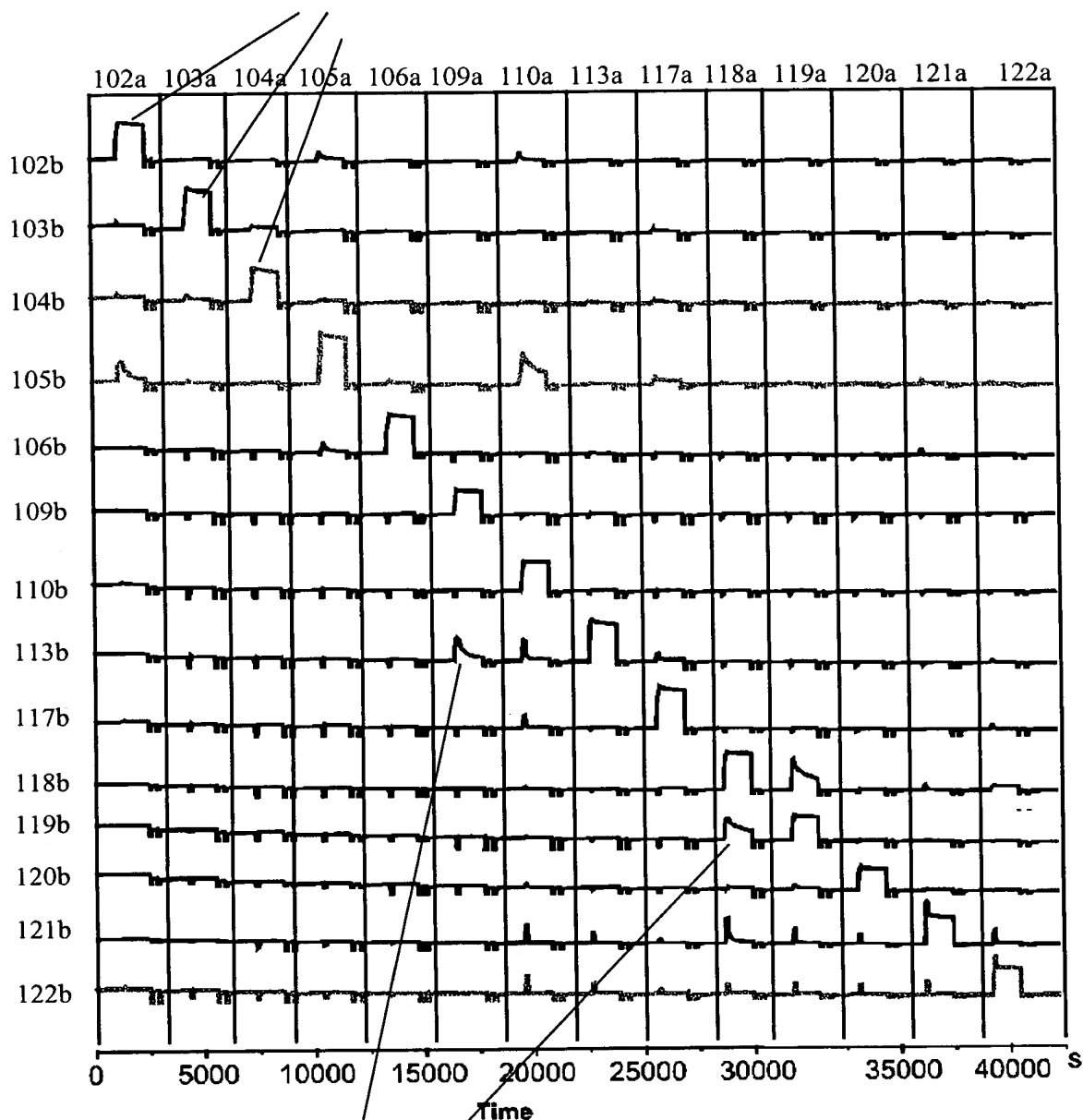


Fig. 14
Selective binding of SBS on SPR

Specific binding of SAU and SBU



Binding of non-matching SAU and SBU

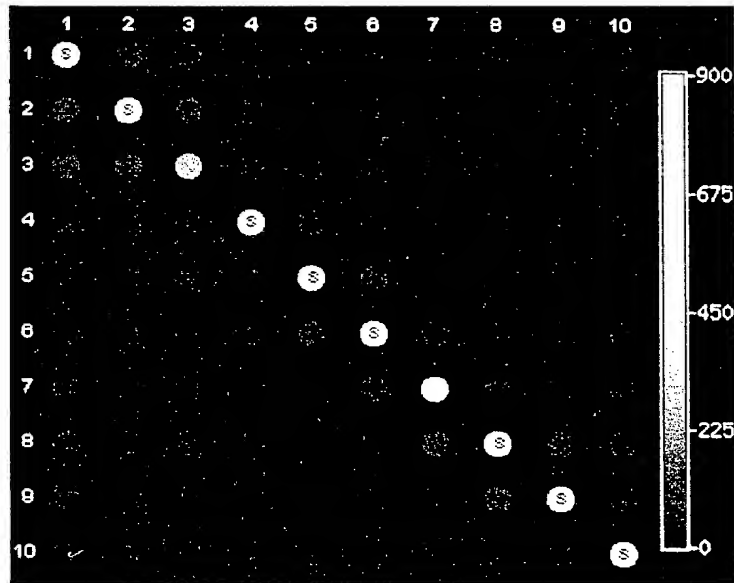


Fig. 16
Immobilization of conjugates on SPR chips

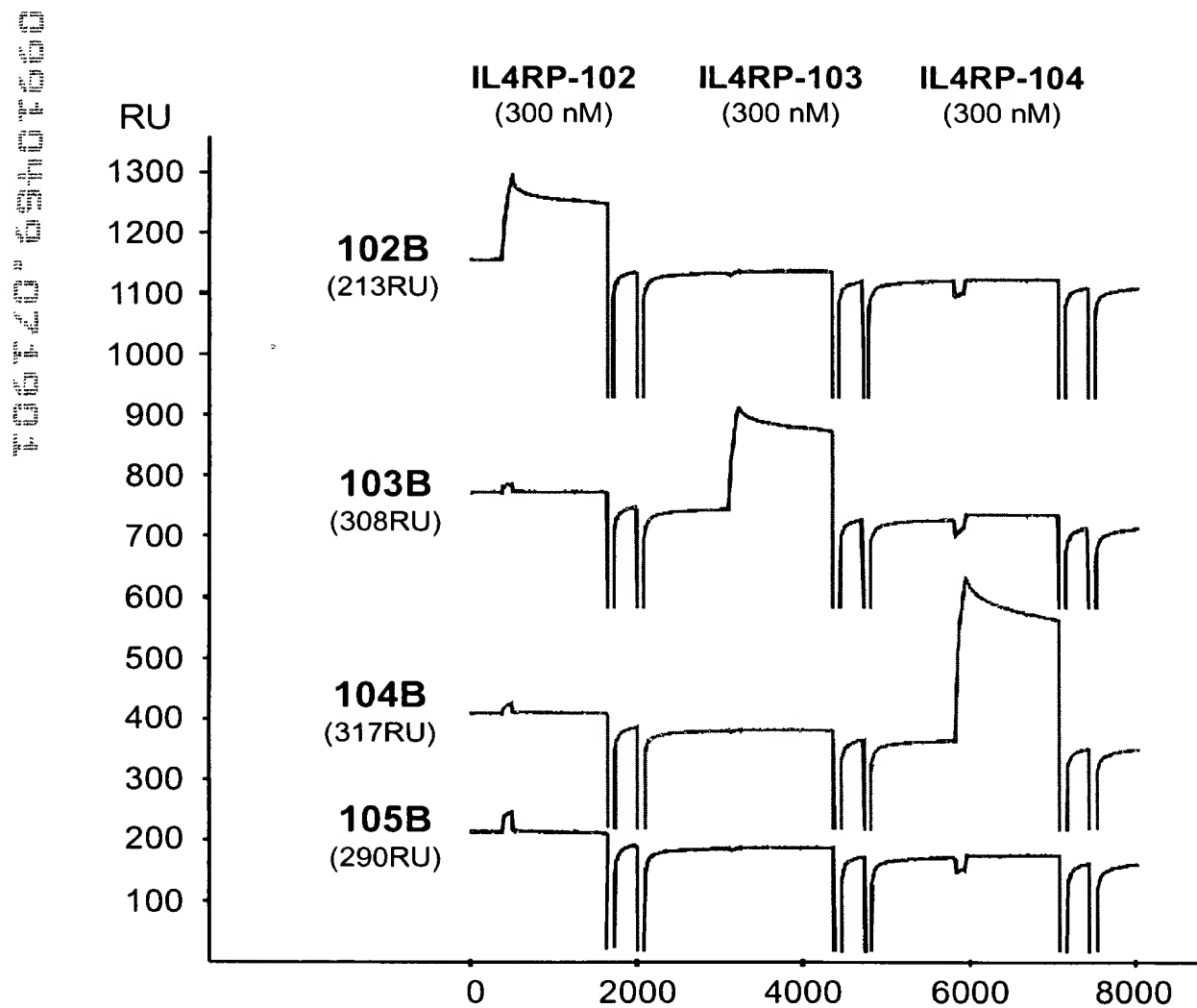


Fig. 17
Immobilization of conjugates
on SPR chips and hybridization with
complementary DNA

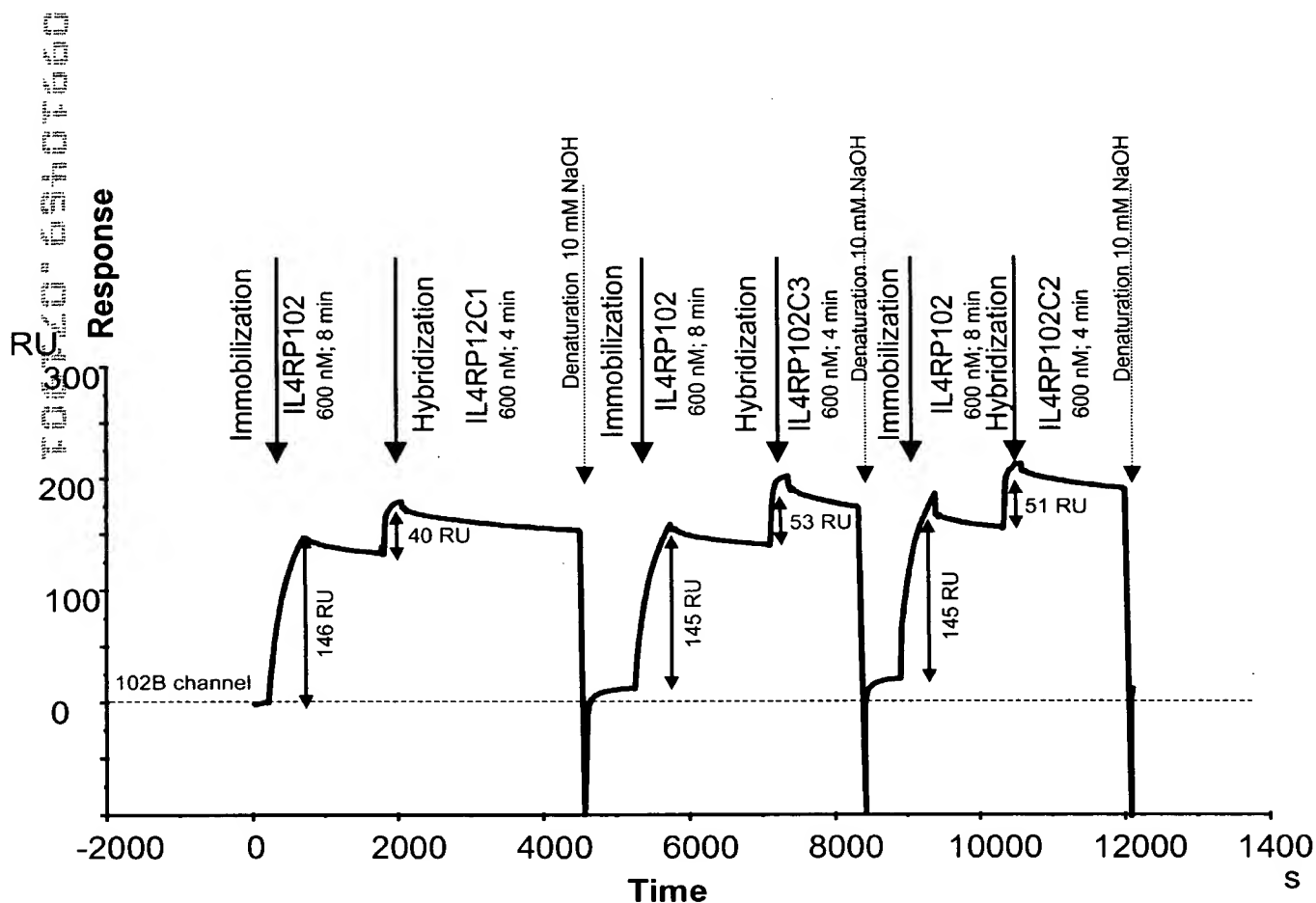
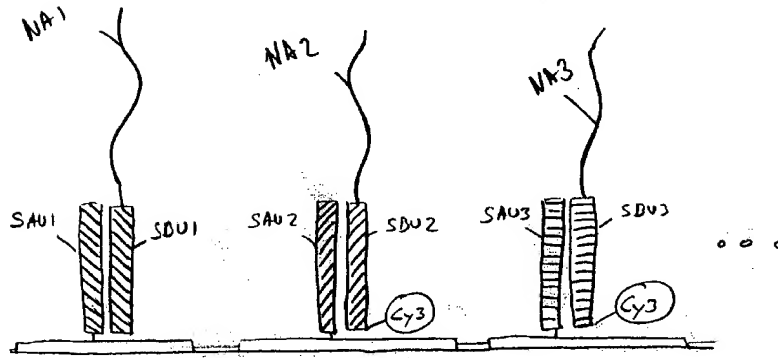
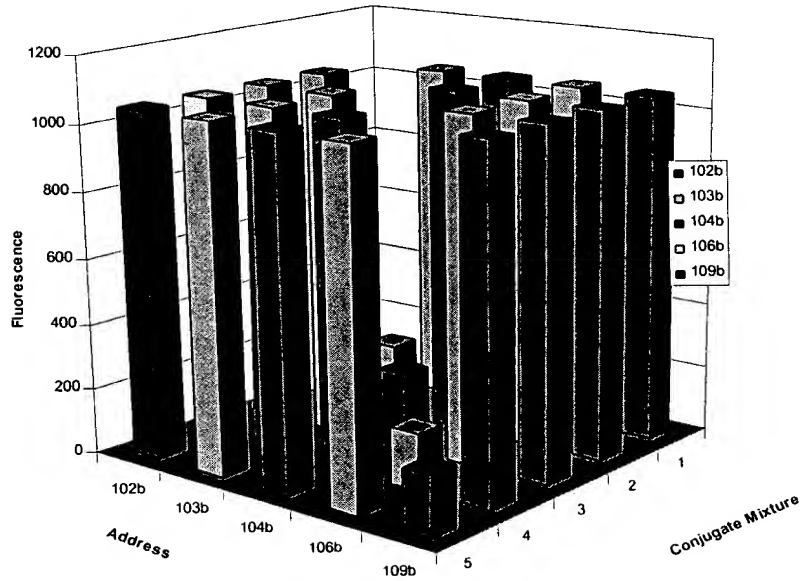


Fig. 18



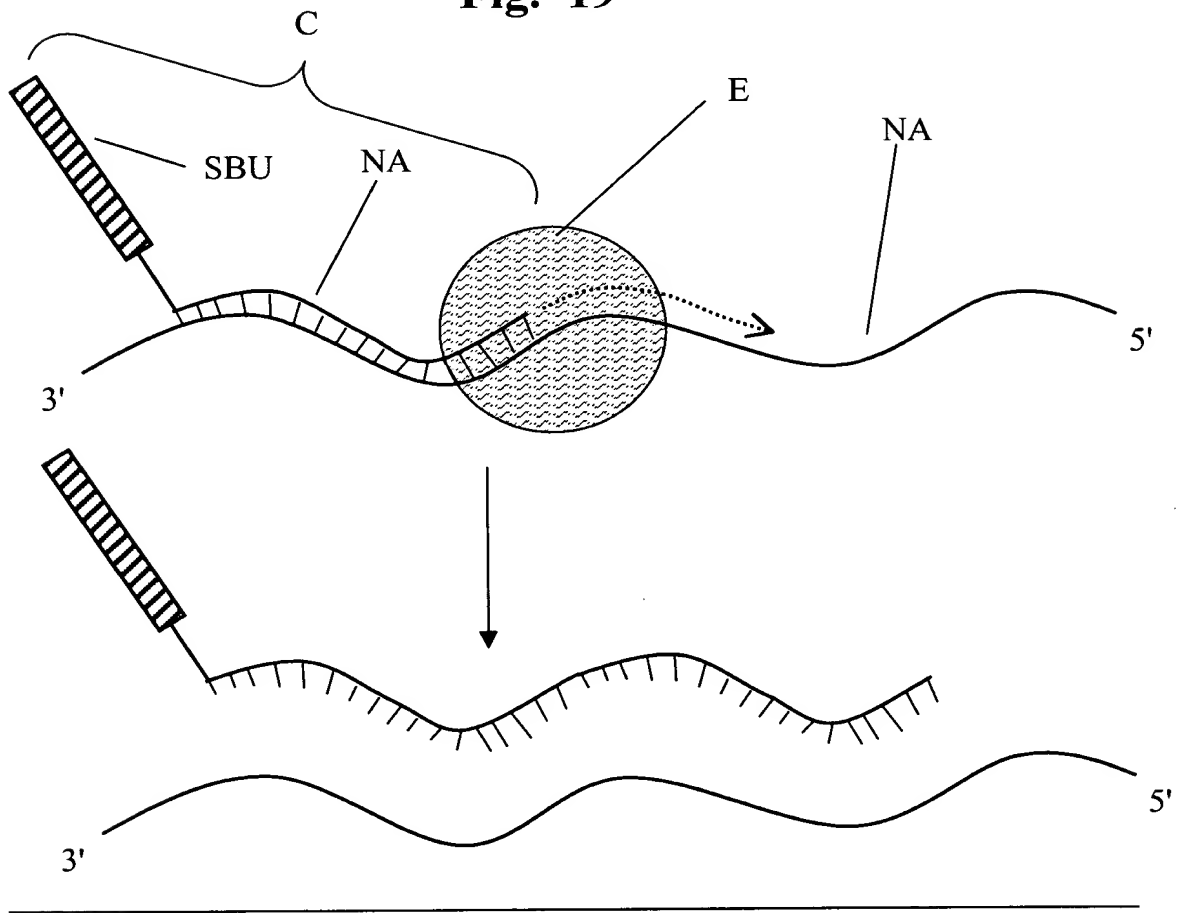
Deconvolution of Conjugate Mixtures



	1	2	3	4	5
102b					
103b					
104b					
106b					
109b					

A

Fig. 19



B

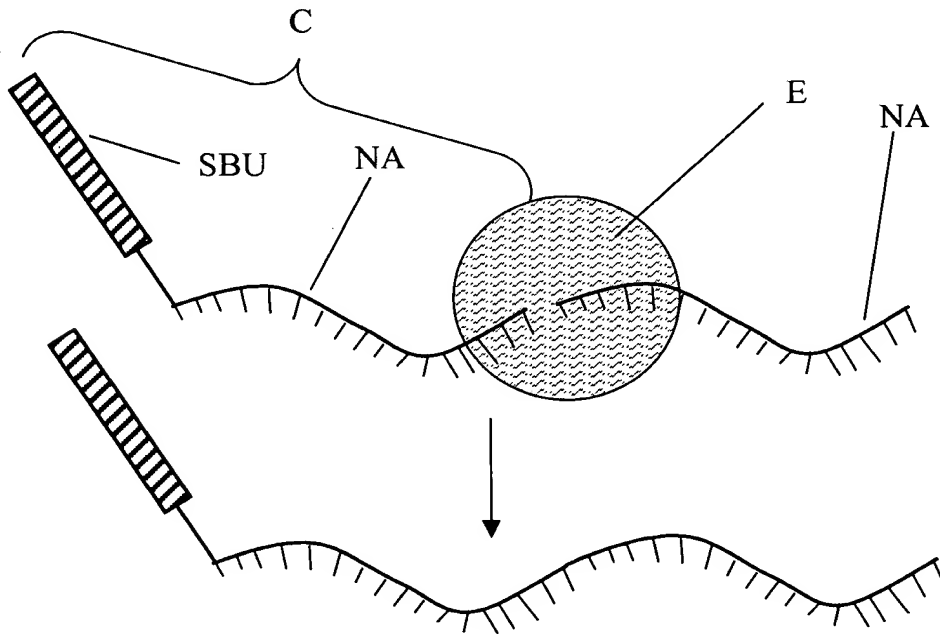
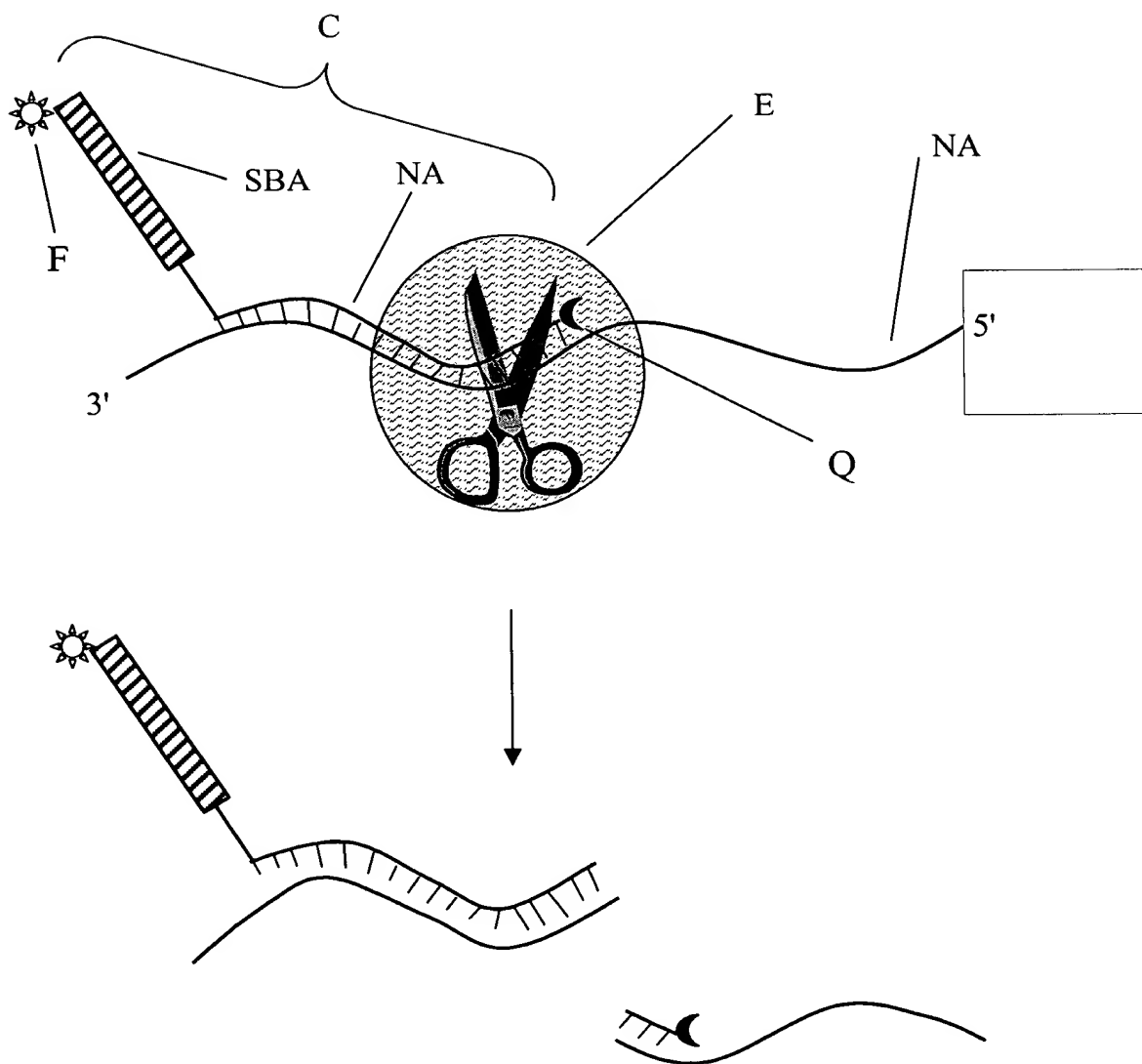


Fig. 20a

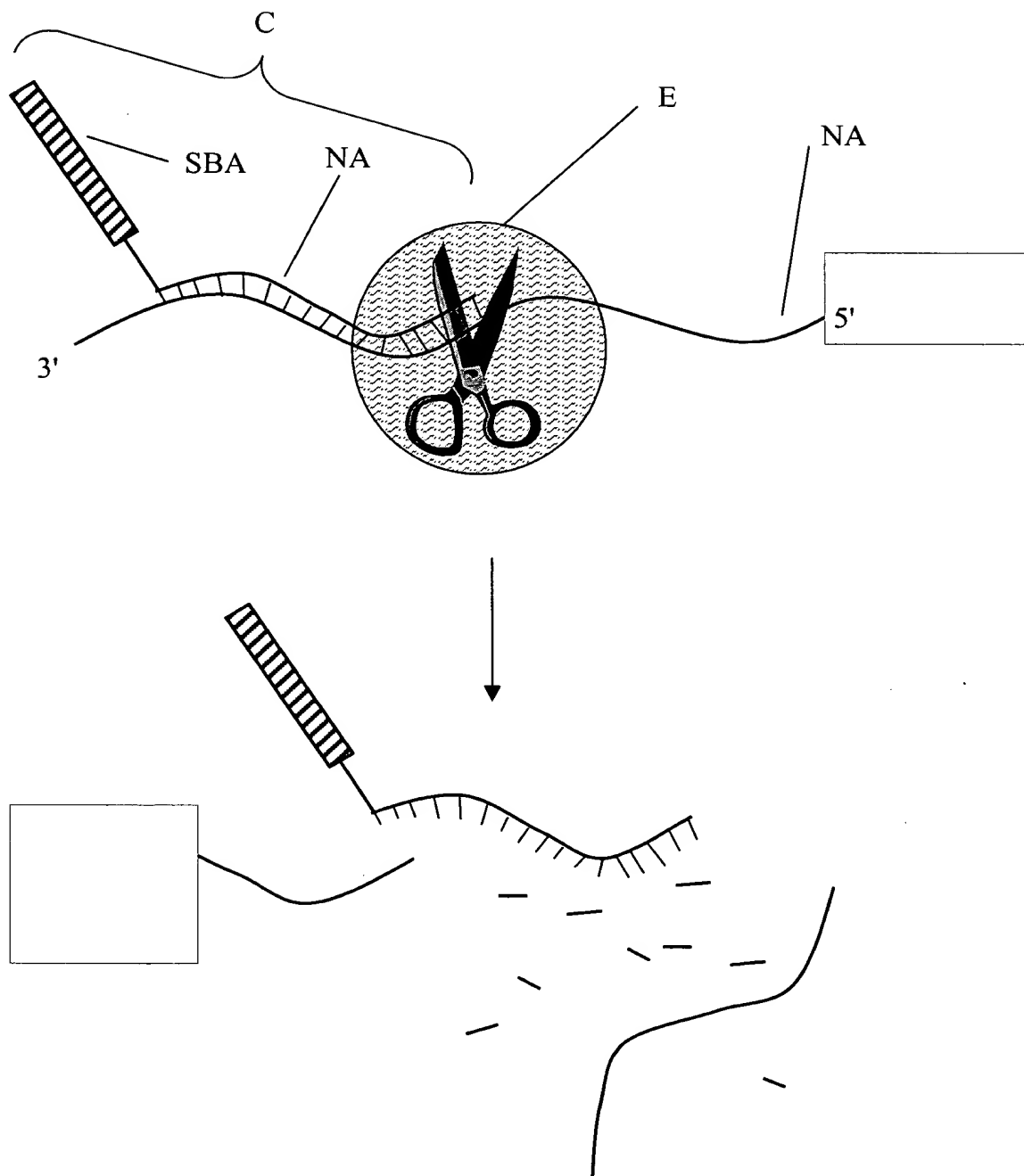
A



00404597400
 00404597400
 00404597400

Fig. 20b

A



094046.07404

Fig. 21

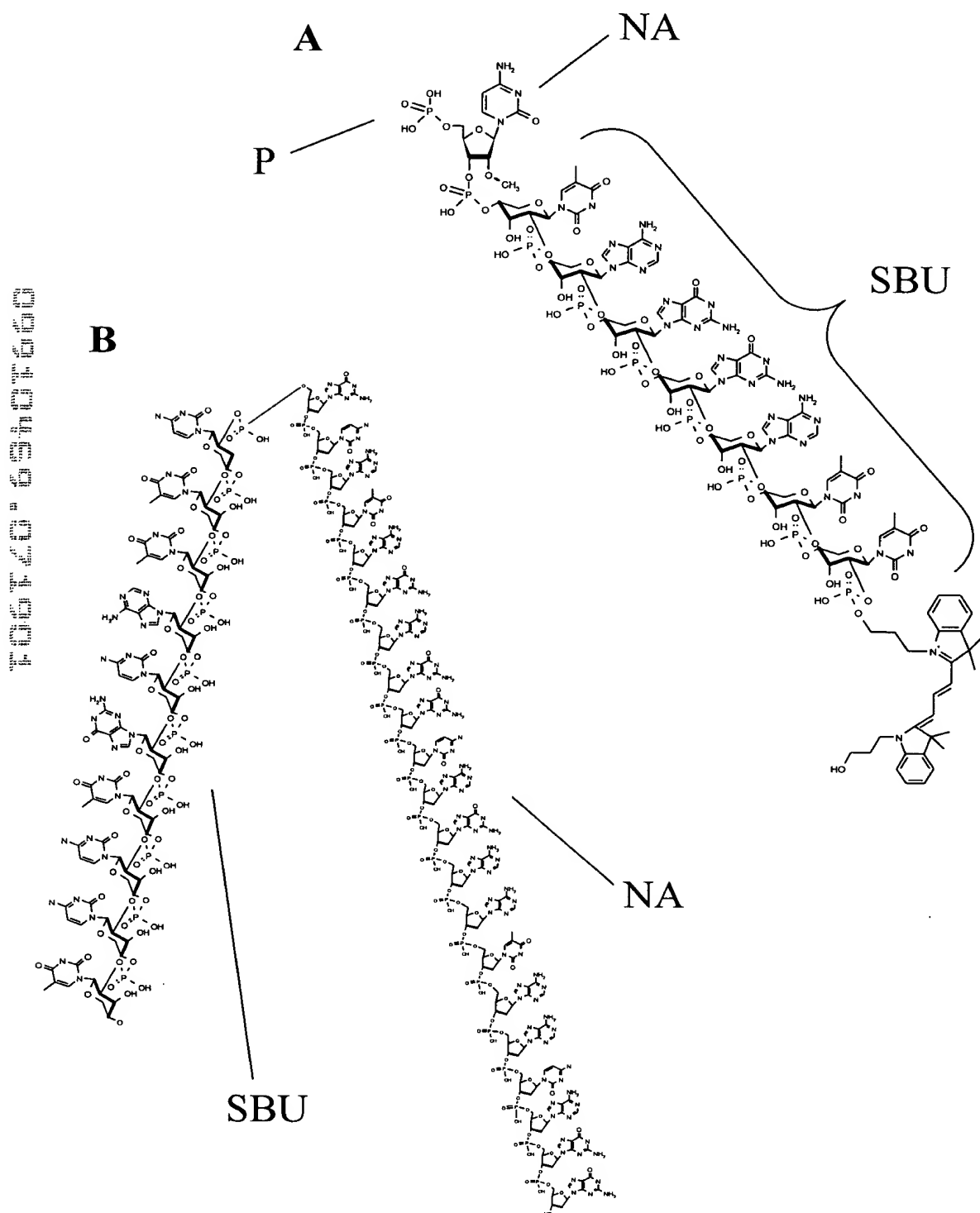


Fig. 22

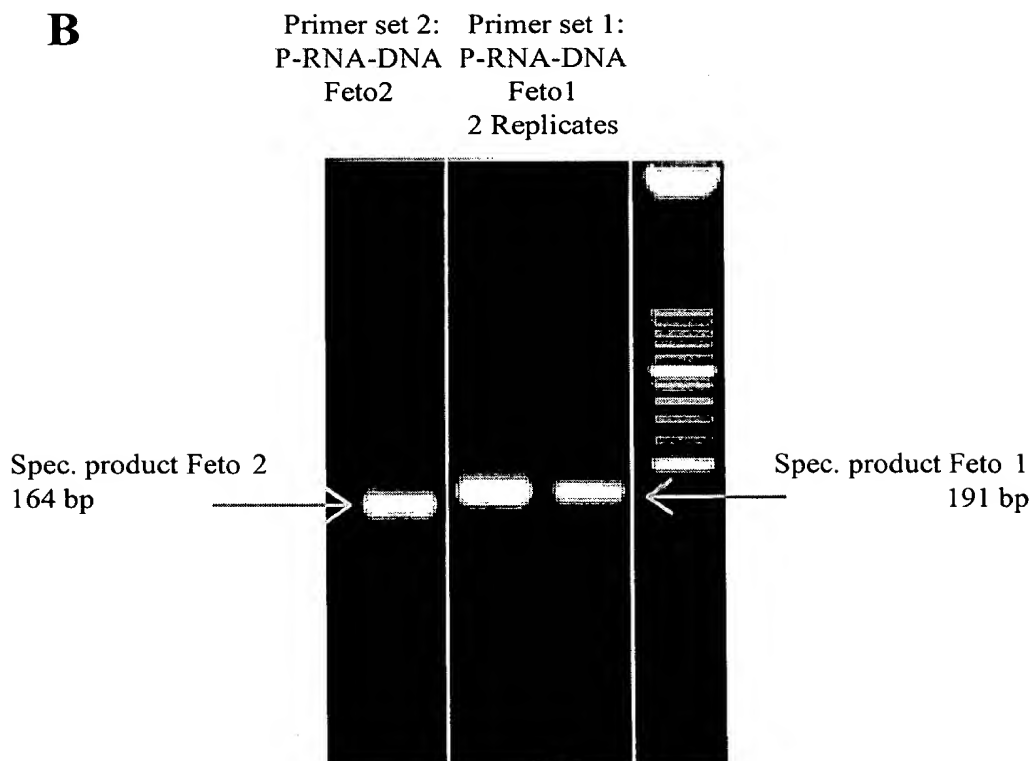
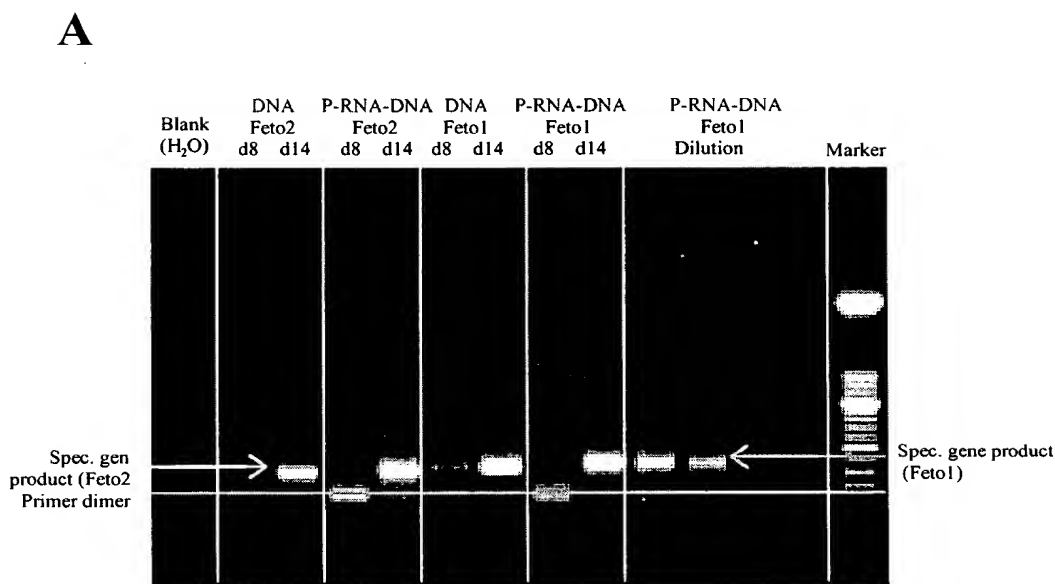


Fig. 23

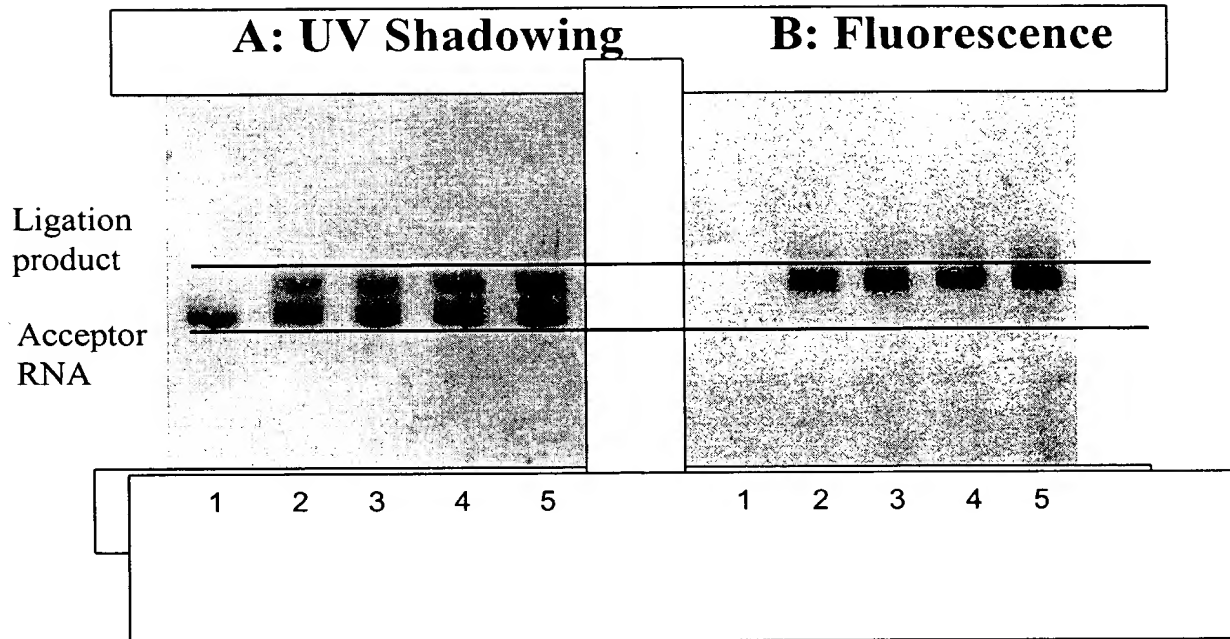


Fig. 24

Addressing of SBU to SAU SDA Primers on same or different SBU

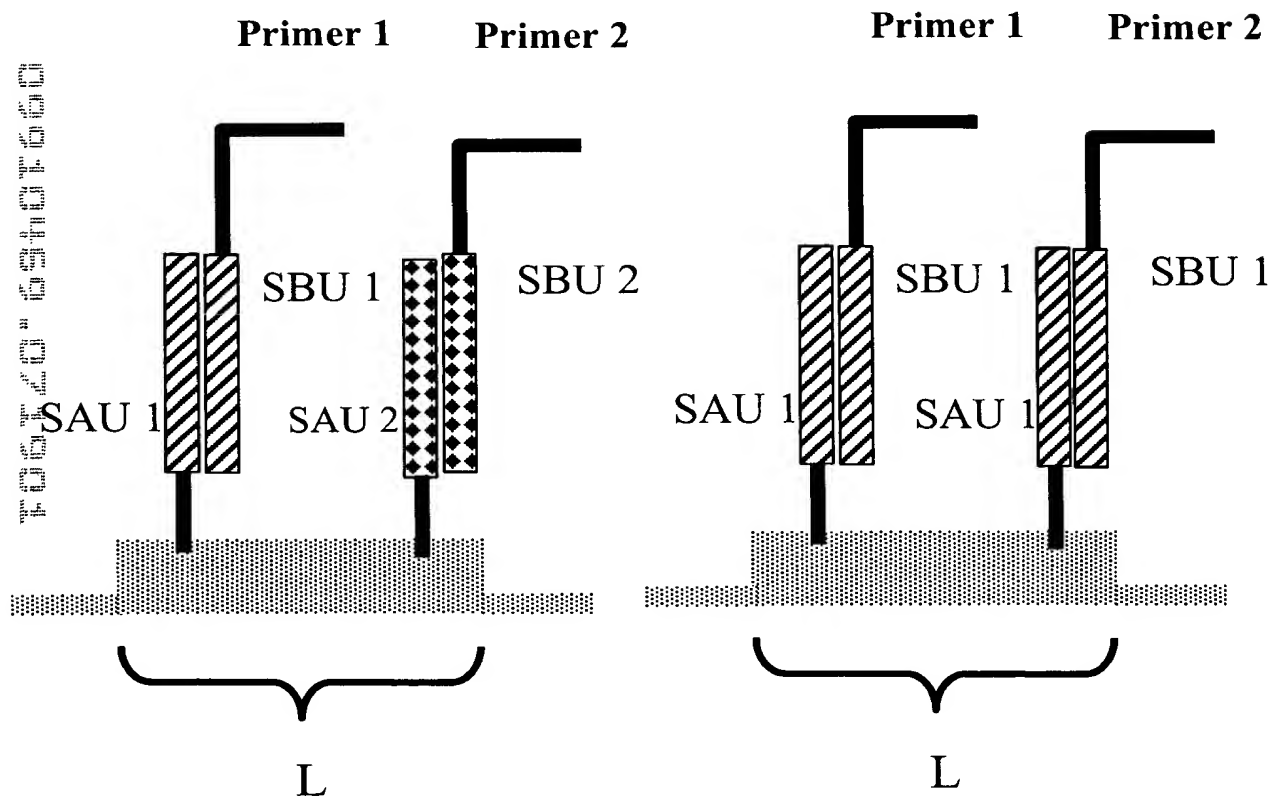


Fig. 25

**Addressing of SBU to SAU
Both SDA primers on the same SBU**

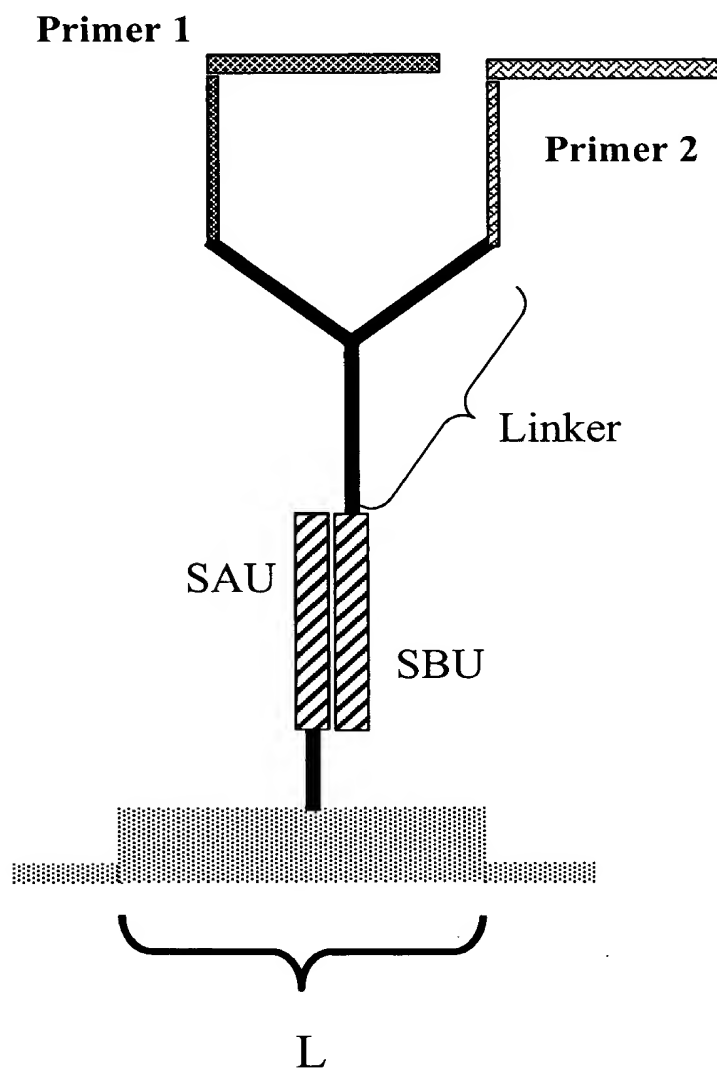


FIG. 25

Fig. 26

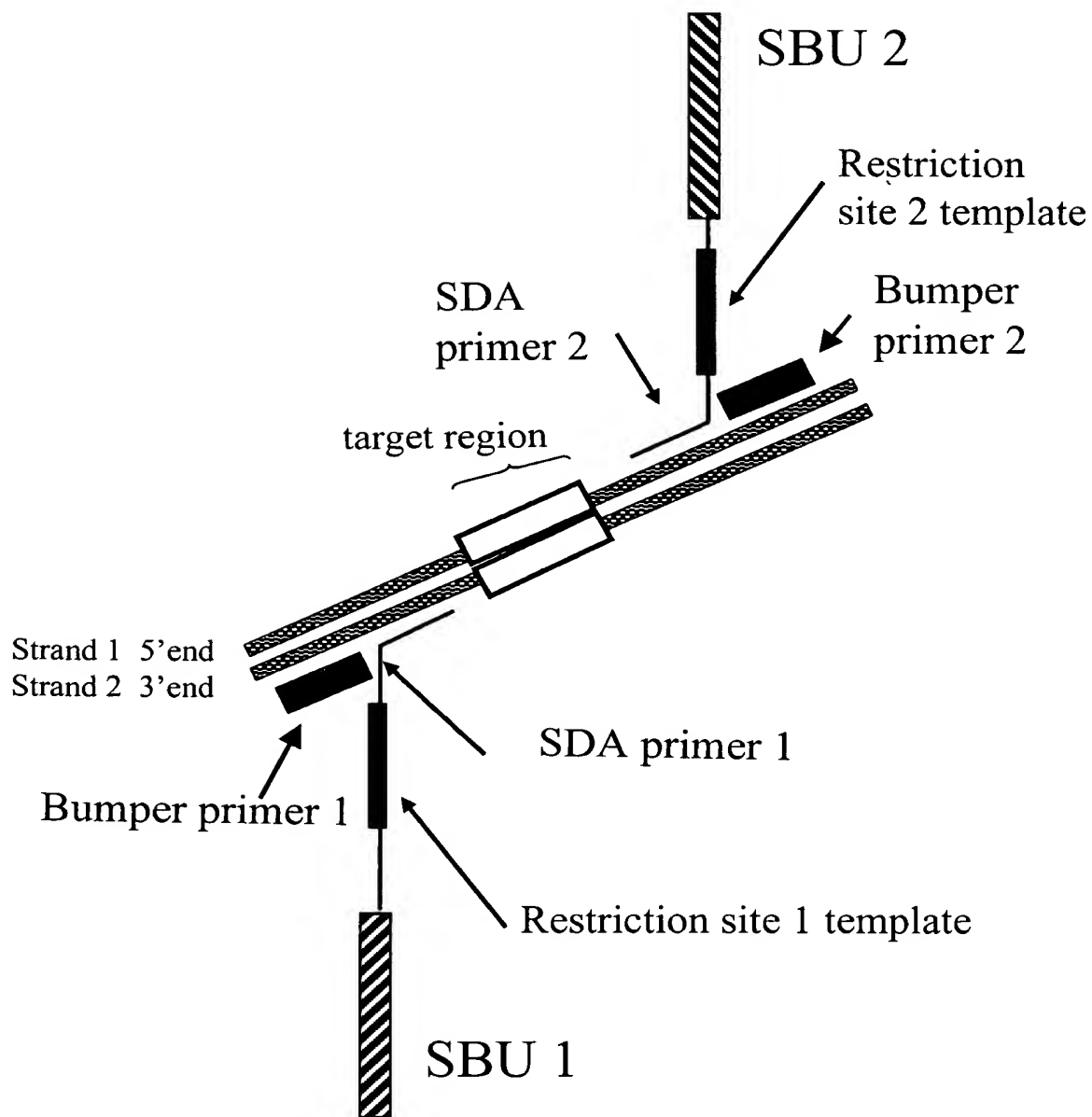
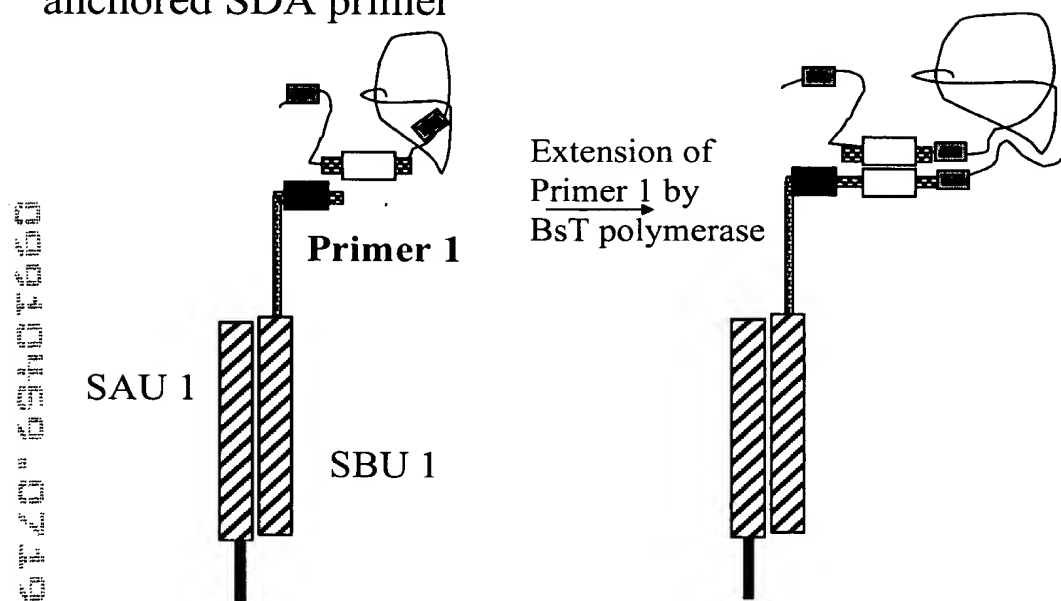


Fig. 27a

Phase 1: Initiation

A. Copying of target onto SBU anchored SDA primer



B. Displacement of genomic DNA by extension from bumper primer 1.

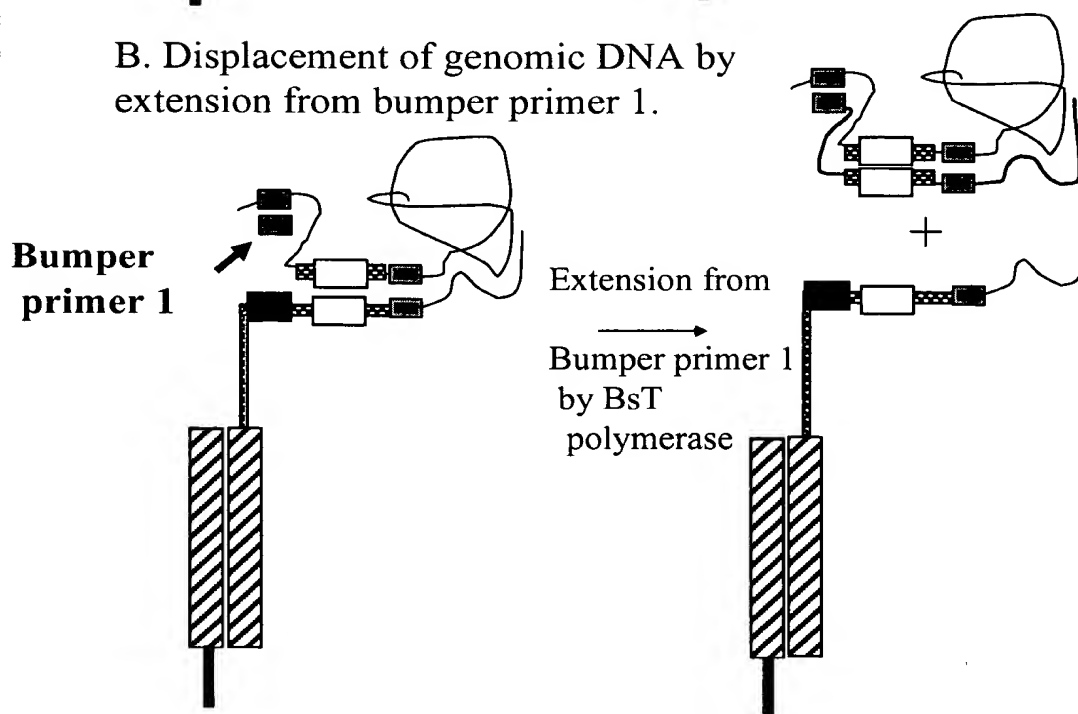
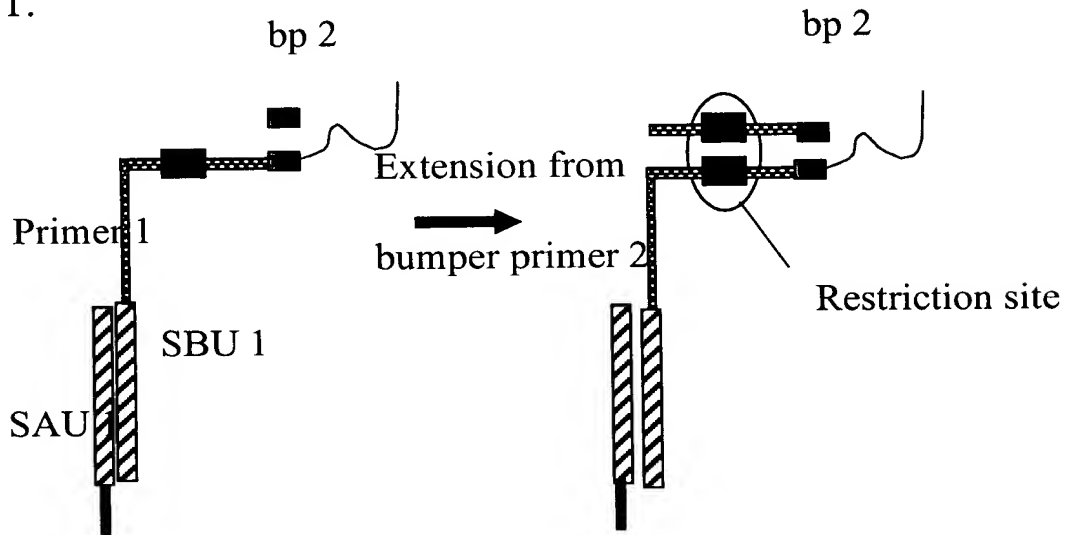


Fig. 27b

Phase 1: Initiation (continued)

C. Restriction site is activated in
Primer 1.



D. Generate displaced S1 strands with
target sequence

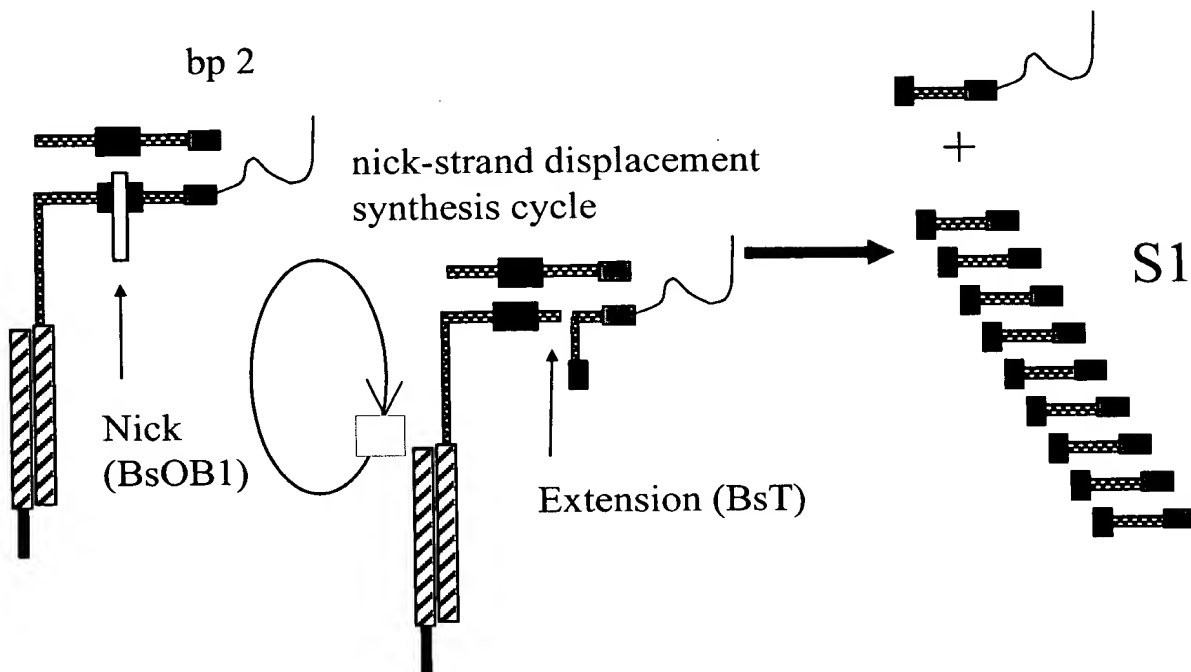
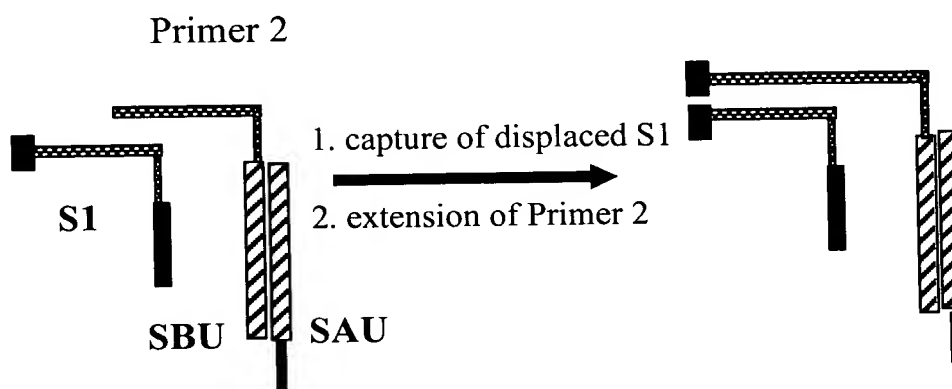


Fig. 27c

Phase 2: Linear Amplification via capture

A. One-for-one increase in anchored amplicon for every Phase 1 displaced strand captured



B. Generation of single stranded anchored amplicons

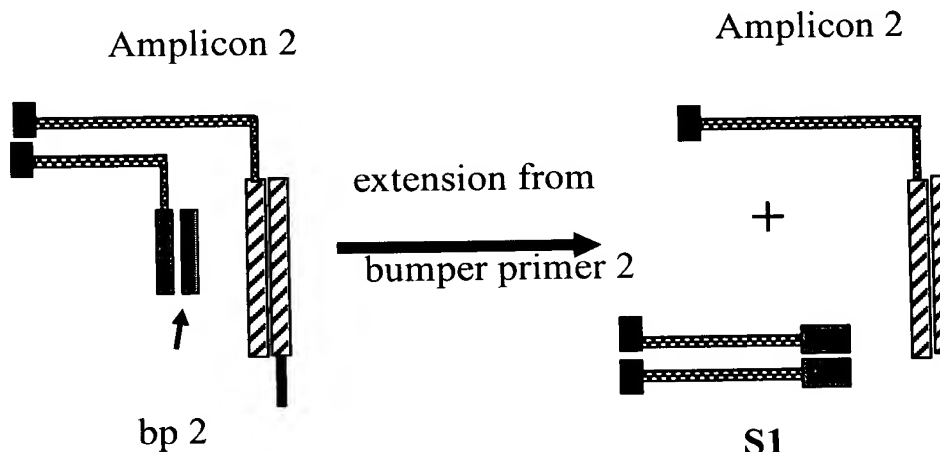
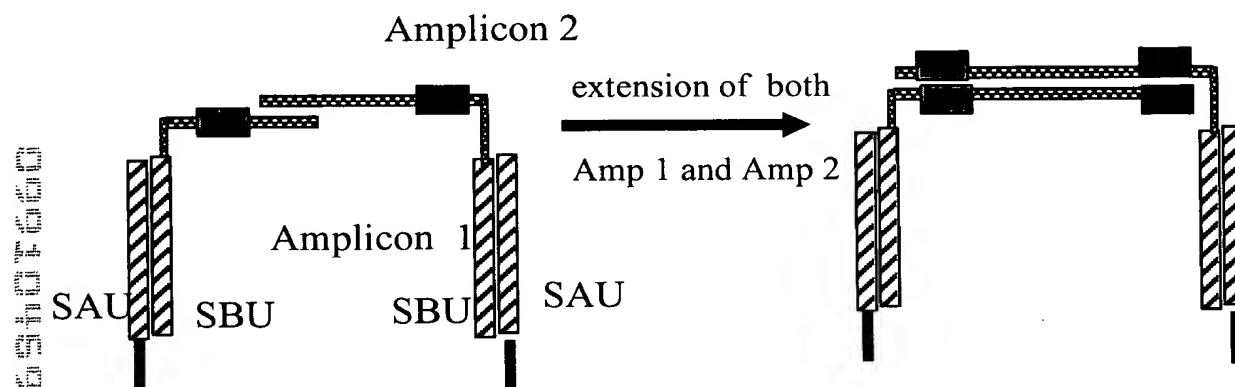


Fig. 27d

Phase 3: Exponential Amplification via bridging and capture

A. Activate restriction site in both anchored Amplicon 1 and anchored Amplicon 2



B. Generate S1 and S2 displaced strands with restriction site on both ends

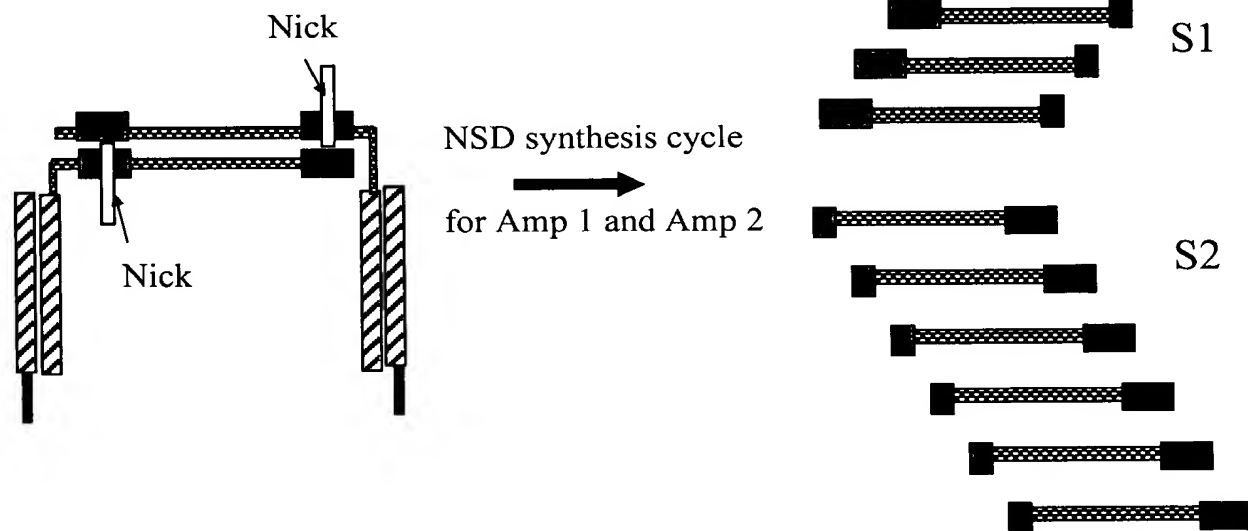
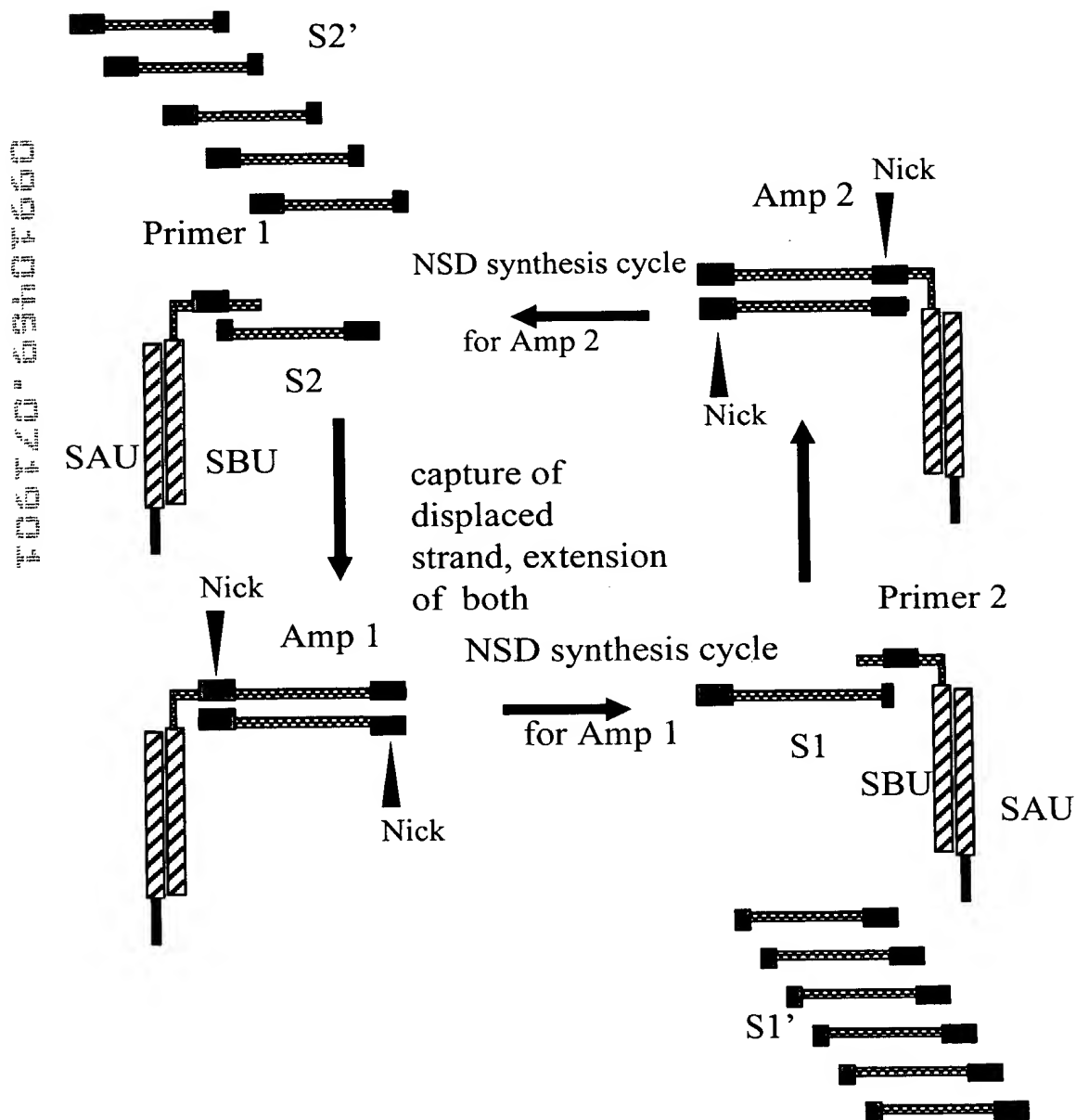


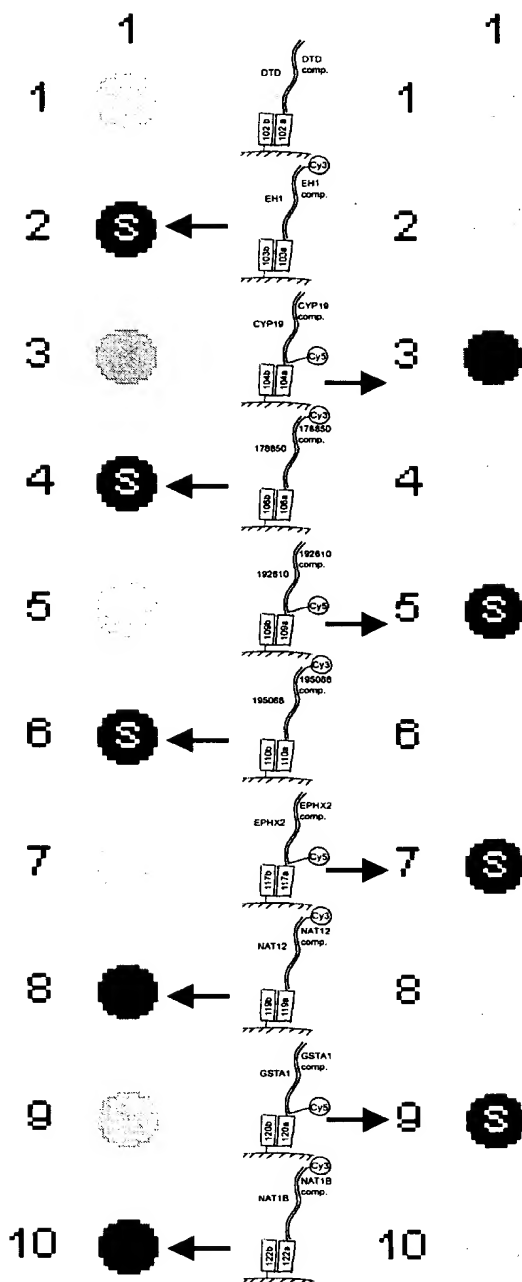
Fig. 27e

**Phase 3: Exponential Amplification
via bridging and capture (cont'd)**

C. Establishes a link between displaced strand capture and activation of restriction site for nicking and strand displacement synthesis cycle



Column 1



Column 2

